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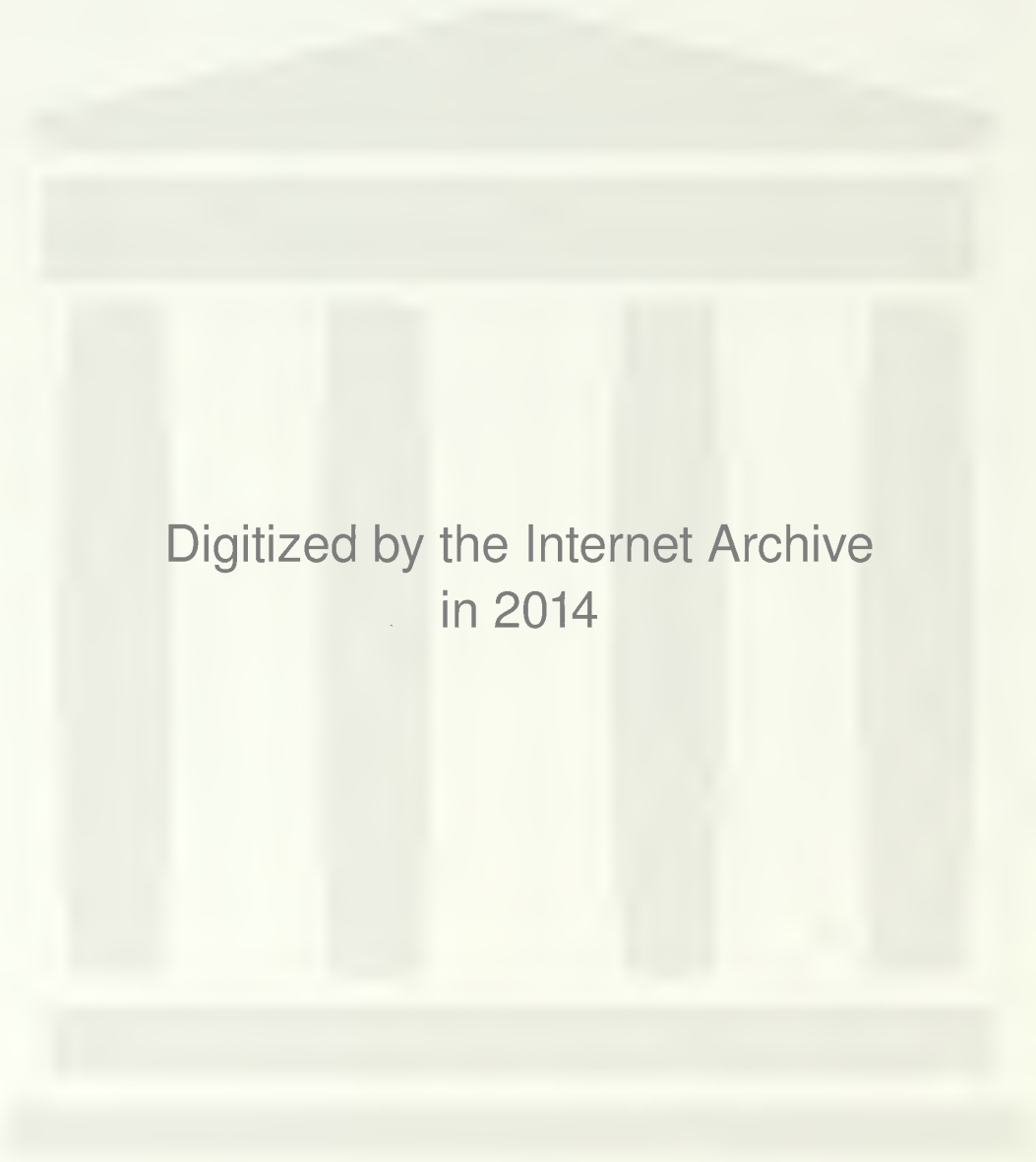
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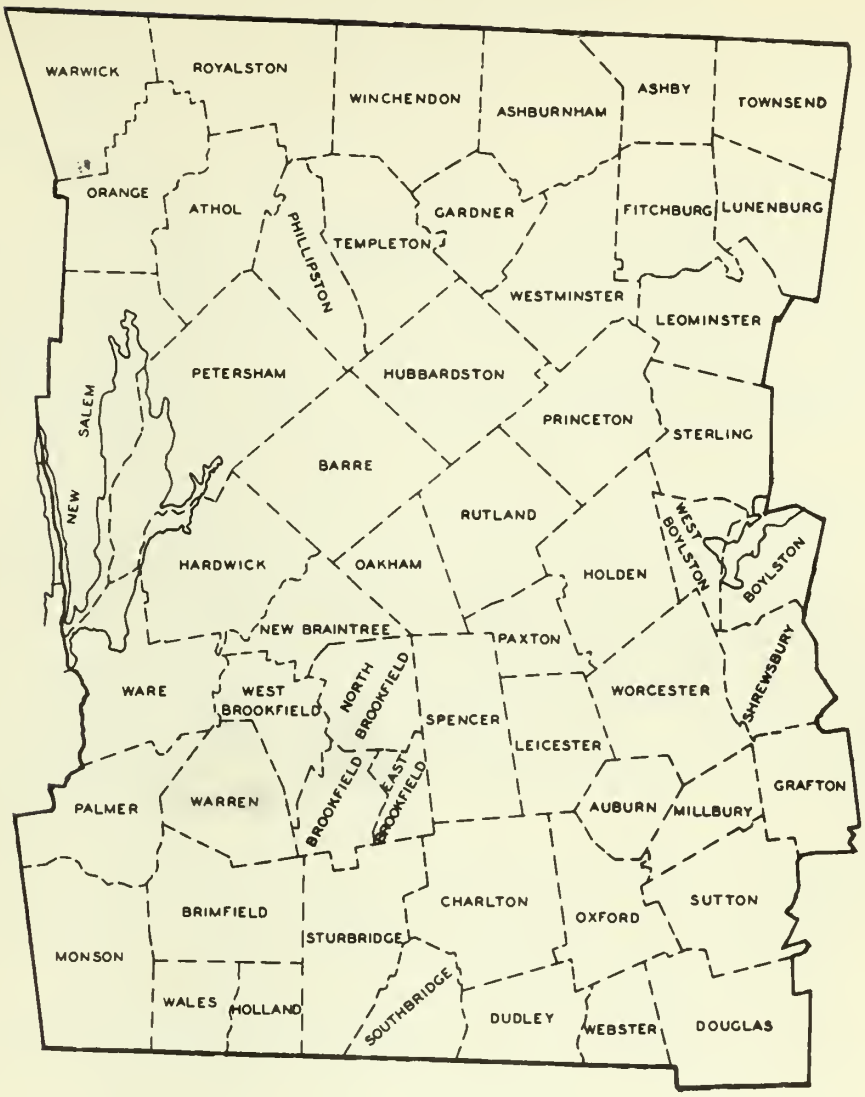

MANUFACTURING COMMUTING SURVEY

CENTRAL MASSACHUSETTS

Massachusetts Department of Commerce

150 CAUSEWAY STREET
BOSTON 14
LA 3-6640

DIVISION OF PLANNING, MAY, 1963
from a survey taken September, 1960

COMMUTING SURVEY OF COVERED MANUFACTURING EMPLOYEES
September, 1960

I. Introduction

An important indicator of the social and economic influence of a community or a region is the relationship between its labor force and the location of their employment. The commuting patterns of an employee reveal in general terms his income, his skills, and his overall orientation to the economy. From this, the task of judging the optimum location of highways, plants, commercial and other facilities dependent upon easy access, markets, and labor force is facilitated.

Thus, when the Division of Planning was preparing its Study of Areas for Regional Planning, published in December, 1960, it became evident that any attempt to determine the regional orientation of our three hundred fifty-one cities and towns could not omit this important factor. However, since detailed information of this type was not available, the Division surveyed over 2,500 manufacturers in September, 1960, to locate the place of residence of their employees. Almost 65% responded. The results were scored and included as one of nine determinants for regional orientation.

This booklet presents the "raw data" assembled in the commuting survey for one of ten areas in the Commonwealth. Several booklets were used, because a single presentation would be unwieldly and, in most instances, unnecessary. Practical considerations, as well as existing and proposed regional organizations and study efforts governed the choice of areas, but the cities and towns included in a particular area do not necessarily form a logical or effective planning region. Booklets are available for the following Areas: Berkshire, Pioneer Valley, Central Massachusetts, Merrimack Valley, Southeastern Massachusetts, the Coastal Plain, and Massachusetts Bay, West, North, South and Central.

II. Method

The survey was taken for maximum inclusion of covered manufacturing employees; i. e., those whose employers report to the Massachusetts Division of Employment Security and which fall into the manufacturing categories of the Standard Industrial Classification. Questionnaires were sent to enough manufacturers in a city or town to locate nearly all reported employees. In most instances, this meant a questionnaire to all employers of over twenty-five workers. None were sent to employers of under twenty-five. In large manufacturing centers, however, fifty was the minimum.

The questionnaires which were returned were recorded and totaled to show the place of residence of persons working in each city or town. Then an analysis was made to determine the converse--the place of employment of those residing in the various cities and towns. Many communities did not have a manufacturer large enough to survey; others did not respond. Thus there are no tabulations for many minor manufacturing towns.

For comparison and control, the number of employees included in the survey return for each city and town were measured against the number of employees reported to the Division of Employment Security from each community. Some employers did not send up-to-date information or may have listed certain "non-covered" employees, and, though a valuable indicator of survey coverage, the comparison may be somewhat inaccurate.

In this booklet, every municipality in the areas described on the cover is listed to show:

(a) The place of residence of those working in each city and town from which information was received.

(b) The place of employment of those residing in each city and town which was indicated in "place of residence" information.

(c) Comparisons and totals:

1. The employees included in the "place of residence" survey.

2. The number of employees reported to the Division of Employment Security as working in all (manufacturing and non-manufacturing) categories of industry, during September, 1960.

3. The number of employees reported to the Division of Employment Security as employed in manufacturing in September, 1960.

4. The percentage of survey returns to reported manufacturing employment.

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Ashburnham

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Fitchburg	172	Winchendon	7	Leominster	2
Gardner	14	Templeton	5	Total	200

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 238
3. Covered manufacturing employment: 157
4. % Survey returns to covered manufacturing employment: 0

Town of Ashby

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Fitchburg	138	Pepperell	4	Leominster	1
Townsend	4	Gardner	2	Total	149

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 61
3. Covered manufacturing employment: 10
4. % Survey returns to covered manufacturing employment: 0

Town of Athol

(a) Local Employees' Place of Residence:

Athol	1816	Erving	21	Northfield	2
Orange	323	Gardner	19	Greenfield	1
Phillipston	47	Warwick	12	Leominster	1
Petersham	39	New Salem	9	Total Mass.	2392
Royalston	33	Montague	6	Keene, N.H.	3
Winchendon	30	Barre	4	Gr. Total	2395
Templeton	26	Wendell	3		

Athol (continued)

(b) Local Residents' Place of Employment:

Athol	1816	Gardner	18	Greenfield	2
Orange	125	Fitchburg	10	Leominster	1
Erving	37	Ware	4	Total	2042
Barre	25	Templeton	4		

(c) Totals:

1. Employees included in survey returns: 2395

2. Covered employment in all classifications: 4227

3. Covered manufacturing employment: 3101

4. % Survey returns to covered manufacturing employment: 77

Town of Auburn:

(a) Local Employees' Place of Residence:

Worcester	130	Charlton	5	Total Mass.	267
Auburn	59	Millbury	4	Misc. R.I.	1
Oxford	21	Sutton	4	Thom.	1
Spencer	6	Grafton	3	Suffield Putnam	1
W. Boylston	6	Hudson	1	Misc. Conn.	1
Shrewsbury	6	Holden	1	Total Conn.	3
Webster	5	Paxton	1	Total O.S.	4
Leicester	5	Misc., Mass.	10	Gr. Total	271

(b) Local Residents' Place of Employment:

Worcester	974	Southbridge	150
Leicester	48	Holden	15
Auburn	59	Oxford	4
Millbury	36	Palmer	20
Grafton	1	Webster	4
Shrewsbury	18	Total	1326
Northboro	1		

(c) Totals:

1. Employees included in survey returns: 271

2. Covered employment in all classifications: 1364

3. Covered manufacturing employment: 414

4. % Survey returns to covered manufacturing employment: 65

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Barre

(a) Local Employees' Place of Residence:

Barre	415	Athol	25	Templeton	8
Hardwick	31	Oakham	15	Rutland	6
N. Brookfield	30	Hubbardston	14	Misc. Mass.	50
Gardner	26	Ware	9	Gr. Total	629

(b) Local Residents' Place of Employment:

Barre	415	Athol	4
Hardwick	46	Warren	4
Hubbardston	16	Templeton	1
Ware	13	Worcester	13
Orange	7	Total	519

(c) Totals:

1. Employees included in survey returns: 629
2. Covered employment in all classifications; 959
3. Covered manufacturing employment: 751
4. % Survey returns to covered manufacturing employment: 84

Town of Boylston

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Worcester	195	Northboro	1
Shrewsbury	3	Total	199

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 39
3. Covered manufacturing employment: 7
4. % Survey returns to covered manufacturing employment: 0

Town of Brimfield

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Palmer	25	Warren	6	Ware	4
Springfield	7	Monson	5	Total	47

Brimfield (continued)

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 58

3. Covered manufacturing employment: 3

4. % Survey returns to covered manufacturing employment 0

Town of Brookfield

(a) Local Employees' Place of Residence:

Brookfield	10			Hardwick	1
N. Brookfield	14			Leicester	1
Spencer	5			Worcester	1
W. Brookfield	4			Northboro	1
E. Brookfield	2			Total	39

(b) Local Residents' Place of Employment:

Ware	56	Brookfield	10	Worcester	52
Warren	49	E. Brookfield	4	Leicester	5
Palmer	27	Southbridge	2	Total	219
Charlton	12	Monson	2		

(c) Totals:

1. Employees included in survey returns: 39

2. Covered employment in all classifications: 357

3. Covered manufacturing employment: 282

4. % Survey returns to covered manufacturing employment: 14

Town of Charlton

(a) Local Employees' Place of Residence:

Charlton	104	Brookfield	12	Misc. Mass.	7
Southbridge	35	Dudley	11	Total Mass.	211
Oxford	16	Sturbridge	7	Misc. Conn.	7
Webster	13	Worcester	6	Gr. Total	218

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Charlton (continued)

(b) Local Residents' Place of Employment:

Charlton	104	Worcester	56
Webster	18	Leicester	24
Dudley	1	Auburn	5
Southbridge	2	Total	210

(c) Totals:

1. Employees included in survey returns: 218
2. Covered employment in all classifications: 406
3. Covered manufacturing employment: 203
4. % Survey returns to covered manufacturing employment: 107

Town of Douglas

(a) Local Employees' Place of Residence:

Douglas	174	Millville	8	Woonsocket	23
Webster	82	Blackstone	6	Burrillville	29
Uxbridge	26	Misc. Mass.	12	Total R.I.	52
Northbridge	24	Total Mass.	332	Gr. Total	384

(b) Local Residents' Place of Employment:

Douglas	174	Uxbridge	8
Northbridge	140	Oxford	3
Bellingham	34	Worcester	18
Webster	20	Total	397

(c) Totals:

1. Employees included in survey returns 384
2. Covered employment in all classifications: 741
3. Covered manufacturing employment: 654
4. % Survey returns to covered manufacturing employment: 59

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COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Dudley

(a) Local Employees' Place of Residence:

Dudley	400	Ashland	1	Woodstock	4
Uxbridge	300	Charlton	1	Misc. Conn.	2
Webster	131	Misc. R.I.	2	Total Conn.	58
Oxford	8	Putnam	27	Total OS.	60
Southbridge	4	Thompson	25	Gr. Total	905

(b) Local Residents' Place of Employment:

Dudley	400	Oxford	3
Webster	269	Worcester	24
Charlton	11	Millbury	3
Southbridge	3	Total	713

(c) Totals:

1. Employees included in survey returns: 905
2. Covered employment in all classifications: 1325
3. Covered manufacturing employment: 978
4. % Survey returns to covered manufacturing employment: 93

Town of East Brookfield

(a) Local Employees' Place of Residence:

E. Brookfield	48	W. Brookfield	4	Newton	3
Spencer	40	Brookfield	4	Leicester	2
N. Brookfield	24	Ware	3	Hardwick	1
Worcester	8	Warren	3	Total	140

(b) Local Residents' Place of Employment:

Spencer	49	Brookfield	2
E. Brookfield	48	Worcester	49
Warren	25	Leicester	3
Ware	15	Total	191

(c) Totals:

1. Employees included in survey returns: 140
2. Covered employment in all classifications: 175
3. Covered manufacturing employment: 146
4. % Survey returns to covered manufacturing employment: 96

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

City of Fitchburg

(a) Local Employees' Place of Residence:

Fitchburg	4567	Sterling	8	Sutton	1
Leominster	780	Lancaster	8	Chelmsford	1
Lunenburg	298	Lowell	7	Bedford	1
Westminster	280	Clinton	5	Dracut	1
Townsend	178	Littleton	4	Groton	3
Ashburnham	172	Maynard	3	Royalston	2
Ashby	138	Orange	3	Misc. Mass.	115
Gardner	138	Oxford	2	Total Mass.	6920
Winchendon	96	Holden	2	Greenville	70
Shirley	20	Rutland	1	New Ipswich	46
Templeton	14	Boylston	1	Brookline	4
Ayer	12	Hubbardston	1	Milford	5
Princeton	12	Billerica	1	Misc. N.H.	13
Pepperell	11	Upton	1	Total N.H.	138
Grafton	11	Douglas	1	Total O.S.	138
Athol	10	Stow	1	Gr. Total	7058
Worcester	9	Shrewsbury	1		

(b) Local Residents' Place of Employment:

Fitchburg	4567	Shirley	12	Worcester	31
Leominster	759	Townsend	8	Clinton	69
Gardner	23	Pepperell	7	Grafton	3
Hubbardston	16	Groton	3	Total	5498

(c) Totals:

1. Employees included in survey returns:	7058
2. Covered employment in all classifications:	17037
3. Covered manufacturing employment:	10352
4. % Survey returns to covered manufacturing employment:	68

City of Gardner

(a) Local Employees' Place of Residence:

Gardner	1380	Worcester	8	Brookline	1
Templeton	140	Phillipston	5	Spencer	1
Winchendon	79	Royalston	5	Stow	1
Westminster	35	Ashby	2	Rutland	1
Fitchburg	23	Boston	2	Billerica	1
Lowell	23	Orange	2	Methuen	1
Hubbardston	22	Greenfield	1	Misc. Mass.	1786
Leominster	18	Townsend	1	Misc. N.H.	6
Athol	18	Springfield	1	Misc. O.S.	1
Ashburnham	14	Lunenburg	1	Gr. Total	1799

Gardner (Continued)

(b) Local Residents' Place of Employment:

Gardner	1380	Hubbardston	23	Orange	8
Fitchburg	138	Athol	19	Townsend	1
Templeton	79	Winchendon	13	Worcester	30
Barre	26	Leominster	12	Total	1729

(c) Totals:

1. Employees included in survey returns:: 1786
2. Covered employment in all classifications: 6849
3. Covered manufacturing employment: 4873
4. % Survey returns to covered manufacturing employment: 37

Town of Grafton

(a) Local Employees' Place of Residence:

Grafton	123	Maynard	3	Auburn	1
Worcester	82	Fitchburg	3	Misc. Mass.	1
Northbridge	39	Milford	2	Total Mass.	345
Millbury	29	Northboro	3	Woonsocket	12
Webster	22	Oxford	3	Pawtucket & CF	1
Shrewsbury	14	Dudley	1	Misc. R. I.	7
Uxbridge	5	Princeton	1	Total R. I.	20
Holden	6	Westboro	1	Total O.S.	20
Upton	5	West Boylston	1	Gr. Total	365

(b) Local Residents' Place of Employment:

Worcester	322	Hudson	4	Fitchburg	11
Millbury	137	Upton	4	Uxbridge	3
Grafton	123	Auburn	3	Total	673
Shrewsbury	10	Westboro	56		

(c) Totals:

1. Employees included in survey returns: 365
2. Covered employment in all classifications: 2378
3. Covered manufacturing employment: 1887
4. % Survey returns to covered manufacturing employment: 19

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Hardwick

(a) Local Employees' Place of Residence:

Hardwick	147	Petersham	2
Barre	46	Spencer	2
Ware	30	E. Brookfield	1
Southbridge	18	Brookfield	1
W. Brookfield	15	Oakham	1
N. Brookfield	10	Warren	1
New Braintree	9	Springfield	1
Sturbridge	3	Gr. Total	287

(b) Local Residents' Place of Employment:

Hardwick	147	Warren	16
Ware	150	Monson	5
Barre	31	Brookfield	1
Springfield	16	Total	366

(c) Totals:

1. Employees included in survey returns:	287
2. Covered employment in all classifications:	517
3. Covered manufacturing employment:	407
4. % Survey returns to covered manufacturing employment:	71

Town of Holland

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Monson	4
Southbridge	1
Total	5

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	13
3. Covered manufacturing employment:	0
4. % Survey returns to covered manufacturing employment:	0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Holden

(a) Local Employees' Place of Residence:

Holden	68	Millbury	15
Worcester	165	Auburn	15
Spencer	29	Leicester	13
Rutland	20	Shrewsbury	10
W. Boylston	17	Gr. Total	352

(b) Local Residents' Place of Employment:

Worcester	877	Leicester	2	Spencer	1
Grafton	6	Shrewsbury	11	Leominster	1
Clinton	5	Holden	68	Total	977
Millbury	2	Hubbardston	4		

(c) Totals:

1. Employees included in survey returns:	352
2. Covered employment in all classifications:	1078
3. Covered manufacturing employment:	586
4. % Survey returns to covered manufacturing employment:	60

Town of Hubbardston

(a) Local Employees' Place of Residence:

Hubbardston	45	Holden	4
Gardner	23	Worcester	3
Barre	16	Orange	3
Fitchburg	16	Oakham	2
Princeton	8	Westminster	2
Templeton	8	Gr. Total	134
Paxton	4		

(b) Local Residents' Place of Employment:

Hubbardston	45	Barre	14	Worcester	14
Gardner	22	Templeton	2	Total	97

(c) Totals:

1. Employees included in survey returns:	134
2. Covered employment in all classifications:	119
3. Covered manufacturing employment:	105
4. % Survey returns to covered manufacturing employment:	128

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COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Leicester

(a) Local Employees' Place of Residence:

Worcester	207	Millbury	8	Boylston	1
Leicester	171	Milford	8	N. Brookfield	1
Oxford	128	Brookfield	5	Northbridge	1
Auburn	48	Clinton	5	Warren	1
Webster	31	Shrewsbury	4	Grafton	1
Spencer	32	E. Brookfield	3	Total Mass.	720
Southbridge	28	Holden	2	Misc. Conn.	6
Charlton	24	Uxbridge	11	Gr. Total	726

(b) Local Residents' Place of Employment:

Worcester	527	Northboro	1	E. Brookfield	2
Leicester	171	Spencer	15	Brookfield	1
Shrewsbury	6	Holden	13	Total	743
Auburn	5	Webster	2		

(c) Totals:

1. Employees included in survey returns:	726
2. Covered employment in all classifications:	1363
3. Covered manufacturing employment:	921
4. % Survey returns to covered manufacturing employment:	79

City of Leominster:

(a) Local Employees' Place of Residence:

Leominster	2096	Shirley	9	Winchendon	1
Fitchburg	759	Westminster	8	Ashby	1
Lunenburg	35	Worcester	3	Athol	1
Lancaster	22	Ayer	6	Holden	1
Townsend	16	Boston	2	Misc. Mass.	159
Clinton	19	Ashburnham	2	Total Mass.	3169
Sterling	14	Hudson	2	New Ipswich,NH	2
Gardner	12	Marlboro	1	Grand Total	3171

(b) Local Residents' Place of Employment:

Leominster	2096	Gardner	18	Clinton	100
Fitchburg	780	Acton	4	Worcester	52
Ayer	28	Lancaster	1	Millbury	2
Shirley	34	Townsend	1	Total	3116

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Leominster (continued)

(c) Totals:

1. Employees included in survey returns:	3169
2. Covered employment in all classifications:	9388
3. Covered manufacturing employment:	6998
4. % Survey returns to covered manufacturing employment:	45

Town of Lunenburg

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Clinton	3	Littleton	5	Shirley	3
Fitchburg	298	Pepperell	2	Townsend	1
Leominster	35	Groton	2	Total	349

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	406
3. Covered manufacturing employment:	102
4. % Survey returns to covered manufacturing employment:	0

Town of Millbury

(a) Local Employees' Place of Residence:

Millbury	515	Paxton	2	Fitchburg	1
Worcester	156	Spencer	2	Millville	1
Grafton	137	Milford	2	Methuen	1
Sutton	64	Northboro	2	Misc. Mass.	7
Auburn	36	Holden	2	Total Mass.	1023
Northbridge	45	Leominster	2	Woonsocket	10
Oxford	16	Clinton	4	Misc. R.I.	2
Shrewsbury	11	Bellingham	1	Total R.I.	12
Uxbridge	8	Charlton	1	Misc. Conn.	1
Dudley	3	Hudson	1	Total O.S.	13
Blackstone	2	Upton	1	Grand Total	1036

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Millbury (continued)

(b) Local Residents' Place of Employment:

Worcester	582	Auburn	4	Bellingham	2
Millbury	515	Clinton	3	Spencer	2
Grafton	29	Northbridge	164	Total	1351
Shrewsbury	19	Holden	15		
Leicester	8	Uxbridge	8		

(c) Totals:

1. Employees included in survey returns:	1036
2. Covered employment in all classifications:	1653
3. Covered manufacturing employment:	1078
4. % Survey returns to covered manufacturing employment:	96

Town of Monson

(a) Local Employees' Place of Residence:

Monson	220	Springfield	5	Total Mass.	279
Palmer	13	Holland	4	Enfield-Thom.	1
Southbridge	11	Ware	4	Stafford	22
Wales	8	Brookfield	2	Rockville	4
Brimfield	5	Warren	1	Total Conn.	27
Hardwick	5	W. Brookfield	1	Grand Total	306

(b) Local Residents' Place of Employment:

Monson	220	Ware	9	Ludlow	4
Palmer	130	Wilbraham	8	Warren	2
Springfield	55	E. Longmeadow	2	Total	430

(c) Totals:

1. Employees included in survey returns:	306
2. Covered employment in all classifications:	800
3. Covered manufacturing employment:	559
4. % Survey returns to covered manufacturing employment:	55

Town of New Braintree

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Hardwick	9	Warren	
Ware	8	Total	

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

New Braintree (continued)

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 8
3. Covered manufacturing employment: 6
4. % Survey returns to covered manufacturing employment: 0

Town of New Salem

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Athol	9	Greenfield	2
Orange	8	Total	19

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 6
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of North Brookfield

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Warren	96	Barre	30	Hardwick	6
Spencer	37	E. Brookfield	24	Worcester	75
Ware	34	Brookfield	14	Total	315

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 432
3. Covered manufacturing employment: 292
4. % Survey returns to covered manufacturing employment: 0

Town of Oakham

(a) Local Employees' Place of Residence: Too Few for Survey

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Oakham (continued)

(b) Local Residents' Place of Employment:

Worcester	14	Hubbardston	2
Barre	15	Total	31

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 18
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Orange

(a) Local Employees' Place of Residence:

Orange	415	Barre	7	Amherst	1
Athol	125	Phillipston	7	Misc. Mass.	26
Warwick	24	Gardner	8	Total Mass.	661
Erving	11	Greenfield	4	Misc. N.H.	1
Petersham	8	Templeton	6	Total N.H.	1
New Salem	8	Fitchburg	2	Total O.S.	1
Wendell	8	Leverett	1	Grand Total	662

(b) Local Residents' Place of Employment:

Orange	415	Hubbardston	3
Athol	323	Fitchburg	3
Erving	147	Gardner	2
Greenfield	6	Templeton	1
Montague	4	Total	904

(c) Totals:

1. Employees included in survey returns: 662
2. Covered employment in all classifications: 1446
3. Covered manufacturing employment: 955
4. % Survey returns to covered manufacturing employment: 69

Town of Oxford

(a) Local Employees' Place of Residence:

Oxford (continued)

Oxford	94	Douglas	3	Southbridge	1
Webster	9	Dudley	3	Uxbridge	1
Worcester	5	Clinton	2	Charlton	1
Auburn	4	Sutton	2	Total Mass.	125
				Thompson, Conn.	7
				Grand Total	132

(b) Local Residents' Place of Employment:

Webster	153	Leicester	128
Oxford	94	Auburn	21
Charlton	16	Millbury	16
Spencer	11	Shrewsbury	4
Southbridge	1	Grafton	3
Dudley	8	Total	853
Worcester	398		

(c) Totals:

1. Employees included in survey returns:	132
2. Covered employment in all classifications:	583
3. Covered manufacturing employment:	266
4. % Survey returns to covered manufacturing employment:	50

Town of Palmer

(a) Local Employees' Place of Residence:

Palmer	1242	Auburn	20	E. Brookfield	2
Worcester	200	Belchertown	21	Chicopee	1
Ware	145	Wilbraham	16	Petersham	1
Clinton	125	Brimfield	25	Misc. Mass.	50
Monson	130	Southbridge	6	Total Mass.	2169
Warren	74	Sturbridge	6	Misc. Conn.	1
Ludlow	35	Holyoke	1	Total Conn.	1
Springfield	35	Holland	4	Total O.S.	1
Brookfield	27	W. Brookfield	3	Grand Total	2170

(b) Local Residents' Place of Employment:

Palmer	1242	Chicopee	9
Springfield	238	Holyoke	6
Warren	45	W. Springfield	6
Ware	40	E. Longmeadow	6
Wilbraham	24	Total	1629
Monson	13		

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Palmer (continued)

(c) Totals:

1. Employees included in survey returns:	2170
2. Covered employment in all classifications:	3817
3. Covered manufacturing employment:	2929
4. % Survey returns to covered manufacturing employment:	74

Town of Paxton

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Worcester	156	Hubbardston	4
Millbury	2	Total	182

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	111
3. Covered manufacturing employment:	10
4. % Survey returns to covered manufacturing employment:	0

Town of Petersham

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Athol	39	Templeton	4	Total	53
Orange	8	Hardwick	2		

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	38
3. Covered manufacturing employment:	4
4. % Survey returns to covered manufacturing employment:	0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Phillipston

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Athol	47	Templeton	6	Winchendon	3
Orange	7	Gardner	5	Total	68

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 39
3. Covered manufacturing employment: 5
4. % Survey returns to covered manufacturing employment: 0

Town of Princeton

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Worcester	52	Hubbardston	8
Fitchburg	12	Total	72

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 24
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Royalston

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Athol	33
Templeton	6
Gardner	5
Winchendon	3
Total	47

Royalston (continued)

(3) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	4
3. Covered manufacturing employment:	0
4. % Survey returns to covered manufacturing employment:	0

Town of Rutland

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Worcester	84	Spencer	2
Shrewsbury	1	Gardner	1
Holden	20	Total	114
Barre	6		

(b) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	108
3. Covered manufacturing employment:	25
4. % Survey returns to covered manufacturing employment:	0

Town of Shrewsbury

(a) Local Employees' Place of Residence:

Worcester	351	Spencer	10	Gardner	2
Shrewsbury	75	Holden	11	Clinton	2
Westboro	20	Leicester	6	Bellingham	1
Northbridge	20	Oxford	4	Sterling	1
Millbury	19	Boylston	3	Rutland	1
Auburn	18	Charlton	3	Grafton	10
Northboro	17	Marlboro	3	Total Mass.	592
W. Boylston	12	Milford	2	Grand Total	592

(b) Local Residents' Place of Employment:

Worcester	887	Leicester	4	Natick	4
Shrewsbury	75	Clinton	4	Wayland	17
Grafton	14	Marlboro	4	Framingham	15
Millbury	11	Westboro	14	Sudbury	4
Northboro	6	Holden	10	Total	1077
Auburn	6	Milford	2		

Shrewsbury (continued)

(c) Totals:

1. Employees included in survey returns: 592
2. Covered employment in all classifications: 2560
3. Covered manufacturing employment: 7811
4. % Survey returns to covered manufacturing employment: 73

Town of Southbridge

(a) Local Employees' Place of Residence:

Southbridge	3263	Brookfield	2	Putnam	1
Webster	452	Holland	1	Thompson	2
Auburn	150	Oxford	1	Misc. Conn.	150
Sturbridge	27	Wales	1	Total Conn.	104
Dudley	3	Misc, Mass,	150	Total U.S.	104
Charlton	2	Total Mass.	4052	Grand Total	4156
		Woodstock	1		

(b) Local Residents' Place of Employment:

Southbridge	3263	Ware	16	Spencer	3
Webster	54	Monson	11	Worcester	56
Charlton	35	Springfield	9	Leicester	28
Hardwick	18	Palmer	6	Total	3503
		Dudley	4		

(c) Totals:

1. Employees included in survey returns: 4156
2. Covered employment in all classifications: 7264
3. Covered manufacturing employment: 5625
4. % Survey returns to covered manufacturing employment: 74

Town of Spencer

(a) Local Employees' Place of Residence:

Spencer	633	Leicester	15	Holden	1
E. Brookfield	48	Southbridge	3	Rutland	2
N. Brookfield	37	Warren	3	Oxford	11
Worcester	19	Ware	3	Total Mass.	811
Webster	20	Millbury	2	Grand Total	811

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Spencer (continued)

(b) Local Residents' Place of Employment:

Spencer	645	Webster	13	Shrewsbury	11
E. Brookfield	40	Brookfield	5	Marlboro	6
Holden	29	Hardwick	2	Auburn	6
Ware	25	Worcester	391	Millbury	2
Warren	20	Leicester	32	Total	1227

(c) Totals:

1. Employees included in survey returns:	811
2. Covered employment in all classifications:	1294
3. Covered manufacturing employment:	956
4. % Survey returns to covered manufacturing employment:	95

Town of Sterling

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Worcester	113	Shrewsbury	1	Fitchburg	8
Clinton	105	Leominster	14	Total	241

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	287
3. Covered manufacturing employment:	45
4. % Survey returns to covered manufacturing employment:	0

Town of Sturbridge

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Southbridge	27	Palmer	6	Hardwick	3
Charlton	7	Webster	4	Total	47

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	512

Sturbridge (continued)

3. Covered manufacturing employment: 135

4. % Survey returns to covered manufacturing employment: 0

Town of Sutton

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Worcester	123	Webster	9
Millbury	64	Bellingham	3
Auburn	4	Oxford	2
Northbridge	88	Total	293

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 244

3. Covered manufacturing employment: 127

4. % Survey returns to covered manufacturing employment: 0

Town of Templeton

(a) Local Employees' Place of Residence:

Templeton	98	Petersham	4	Total Mass.	220
Gardner	79	Westminster	4	Misc. N.H.	3
Winchendon	10	Athol	4	Total N.H.	3
Phillipston	6	Hubbardston	2	Misc. O.S.	1
Royalston	6	Orange	1	Total O.S.	4
Ashburnham	5	Barre	1	Grand Total	224

(b) Local Residents' Place of Employment:

Gardner	140	Fitchburg	14	Winchendon	7
Templeton	98	Hubbardston	8	Orange	6
Athol	26	Barre	8	Total	307

(c) Totals:

1. Employees included in survey returns: 224

2. Covered employment in all classifications: 734

3. Covered manufacturing employment: 496

4. % Survey returns to covered manufacturing employment: 45

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Townsend

(a) Local Employees' Place of Residence:

Fitchburg	8	Gardner	1	Misc. N.H.	1
Ashby	4	Chelmsford	1	Total N.H.	1
Pepperell	3	Lunenburg	1	Total O.S.	1
Leominster	1	Total Mass.	19	Grand Total	20

(b) Local Residents' Place of Employment:

Fitchburg	178	Groton	10
Pepperell	36	Littleton	7
Leominster	16	Total	257
Shirley	10		

(c) Totals:

1. Employees included in survey returns: 20
2. Covered employment in all classifications: 283
3. Covered manufacturing employment: 100
4. % Survey returns to covered manufacturing employment: 20

Town of Wales

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Springfield	8	Warren	3
Monson	8	Southbridge	1
Ware	4	Total	24

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 1
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Ware

(a) Local Employees' Place of Residence:

Ware (continued)

Ware	1003	Worcester	7	Charlton	1
Hardwick	150	Springfield	5	New Salem	1
Warren	121	Athol	4	Leicester	1
Brookfield	56	Brimfield	4	Wilbraham	1
W. Brookfield	63	Wales	4	Total Mass.	1595
Palmer	40	Dudley	2	Misc. R.I.	4
N. Brookfield	34	Westfield	2	Total R.I.	4
Spencer	25	Orange	2	Misc. Me.	2
Southbridge	16	Sturbridge	2	Total Me.	2
E. Brookfield	15	Belchertown	2	Enfield-Thomp.	6
Barre	13	Ludlow	2	Total Conn.	6
Monson	9	Webster	1	Total O.S.	12
New Braintree	8	Oakham	1	Grand Total	1607

(b) Local Residents' Place of Employment:

Ware	1003	Chicopee	4
Palmer	145	E. Brookfield	3
Warren	50	Spencer	3
Hardwick	30	Holyoke	2
Springfield	77	W. Springfield	2
Barre	9	South Hadley	2
Monson	4	Total	1334

(c) Totals:

1. Employees included in survey returns: 1607
2. Covered employment in all classifications: 3026
3. Covered manufacturing employment: 2355
4. % Survey returns to covered manufacturing employment: 68

Town of Warren

(a) Local Employees' Place of Residence:

Warren	429	Barre	4	Oakham	1
W. Brookfield	103	Brimfield	6	Paxton	1
N. Brookfield	96	Worcester	4	Leicester	1
Ware	60	Springfield	4	Uxbridge	1
Brookfield	49	Wales	3	Wilbraham	4
Palmer	45	New Braintree	2	Misc. Mass.	69
E. Brookfield	25	Monson	2	Total Mass.	952
Spencer	20	Southbridge	5	Total O.S.	20
Hardwick	16	Sturbridge	1	Grand Total	952
		W. Boylston	1		

(b) Local Residents' Place of Employment:

Warren	429	Palmer	74	E. Brookfield	3
Ware	121	Springfield	15	Spencer	3

Warren (continued)

Chicopee	2
Total	547

(c) Totals:

1. Employees included in survey returns:	952
2. Covered employment in all classifications:	1391
3. Covered manufacturing employment:	1280
4. % Survey returns to covered manufacturing employment:	74

Town of Warwick

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Orange	24
Athol	12
Total	36

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	13
3. Covered manufacturing employment:	10
4. % Survey returns to covered manufacturing employment:	0

Town of Webster

(a) Local Employees' Place of Residence:

Webster	1616	Sturbridge	4	Total Mass.	2199
Dudley	269	Auburn	4	Pawtucket & Cr	2
Oxford	153	Upton	2	Misc. R.I.	19
Southbridge	54	Leicester	2	Total R.I.	21
Worcester	24	Northbridge	1	Putnam	14
Douglas	20	Somerset	1	Thompson	108
Charlton	18	N. Attleboro	1	Misc. Conn.	16
Spencer	13	Lawrence	1	Total Conn.	138
Sutton	9	Holland	1	Total O.S.	159
Uxbridge	4	Shrewsbury	1	Grand Total	2358
		Misc. Mass.	1		

Webster (continued)

(b) Local Residents' Place of Employment:

Webster	1660	Oxford	9
Southbridge	452	Uxbridge	5
Dudley	131	Worcester	126
Douglas	82	Leicester	31
Northbridge	64	Grafton	22
Spencer	20	Auburn	5
Charlton	13	Total	2620

(c) Totals:

1. Employees included in survey returns: 2358
2. Covered employment in all classifications: 5748
3. Covered manufacturing employment: 4165
4. % Survey returns to covered manufacturing employment: 57

Town of West Boylston

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Worcester	382	Grafton	1
Clinton	51	Holden	17
Shrewsbury	12	Total	469
Auburn	6		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 472
3. Covered manufacturing employment: 97
4. % Survey returns to covered manufacturing employment: 0

Town of West Brookfield

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Warren	103	Brookfield	4
Ware	63	Worcester	12
Hardwick	15	Total	201
E. Brookfield	4		

West Brookfield (continued)

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	159
3. Covered manufacturing employment:	54
4. % Survey returns to covered manufacturing employment:	0

Town of Westminster

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Fitchburg	280	Hubbardston	2
Gardner	35	Clinton	2
Leominster	8	Total	331
Templeton	4		

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	402
3. Covered manufacturing employment:	72
4. % Survey returns to covered manufacturing employment:	0

Town of Winchendon

(a) Local Employees' Place of Residence:

Winchendon	339	Orange	1	Rindge, N.H.	3
Gardner	13	Westminster	1	Misc. N.H.	27
Ashburnham	7	Fitchburg	1	Total N.H.	39
Templeton	7	Athol	1	Misc. O.S.	56
Royalston	3	Total Mass.	376	Total O.S.	95
Philipston	3	Fitzwilliam	9	Grand Total	471

(b) Local Residents' Place of Employment:

Winchendon	339	Templeton	10
Fitchburg	96	Leominster	1
Gardner	79	Total	555
Athol	30		

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Winchendon (continued)

(c) Totals:

1. Employees included in survey returns: 471
2. Covered employment in all classifications: 1411
3. Covered manufacturing employment: 964
4. % Survey returns to covered manufacturing employment:: 49

City of Worcester

(a) Local Employees' Place of Residence:

Worcester	12798	N. Brookfield	75	Uxbridge	14
Auburn	974	Clinton	76	W. Brookfield	12
Holden	877	Charlton	56	Southboro	9
Shrewsbury	887	Brookfield	52	Misc. Mass.	244
Millbury	582	Leominster	52	Total Mass.	20304
Leicester	527	E. Brookfield	49	Misc. R.I.	35
Oxford	398	Princeton	52	Total R.I.	35
Spencer	391	Southbridge	56	Misc. N.H.	6
W. Boylston	382	Marlboro	41	Total N.H.	6
Grafton	322	Fitchburg	31	Misc. Conn.	21
Boylston	195	Gardner	30	Total Conn.	21
Northboro	195	Upton	25	Total O.S.	42
Paxton	156	Dudley	24	Grand Total	20346
Webster	126	Lancaster	21		
Sutton	123	Barre	13		
Sterling	113	Douglas	18		
Westboro	107	Hubbardston	14		
Rutland	84	Milford	10		
Northbridge	79	Oakham	14		

(b) Local Residents' Place of Employment:

Worcester	12798	Maynard	19	Warren	4
Shrewsbury	351	Webster	24	Leominster	3
Leicester	207	Ashland	14	Stow	3
Millbury	156	Northampton	10	Hubbardston	3
Auburn	130	E. Longmeadow	9	Brookfield	1
Clinton	94	Fitchburg	9	Lancaster	1
Grafton	82	Gardner	8	Quincy	10
Marlboro	34	Spencer	19	Wayland	160
Northboro	10	E. Brookfield	8	Framingham	91
Hudson	4	Ware	7	Sudbury	13
Palmer	200	Charlton	6	Natick	3
Holden	165	Millis	6	Total	14833
Northbridge	105	Oxford	5		
Westboro	57	Southboro	4		

Worcester (continued)

(c) Totals:

1. Employees included in survey returns: 20346
2. Covered employment in all classifications: 72251
3. Covered manufacturing employment: 38163
4. % Survey returns to covered manufacturing employment: 53

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MANUFACTURING COMMUTING SURVEY

MASSACHUSETTS BAY SOUTH

DIVISION OF PLANNING, MAY, 1963
from a survey taken September, 1960

Massachusetts
Department of
Commerce

150 CAUSEWAY STREET
BOSTON 14
LA 3-6640

COMMUTING SURVEY OF COVERED MANUFACTURING EMPLOYEES
September, 1960

I. Introduction

An important indicator of the social and economic influence of a community or a region is the relationship between its labor force and the location of their employment. The commuting patterns of an employee reveal in general terms his income, his skills, and his overall orientation to the economy. From this, the task of judging the optimum location of highways, plants, commercial and other facilities dependent upon easy access, markets, and labor force is facilitated.

Thus, when the Division of Planning was preparing its Study of Areas for Regional Planning, published in December, 1960, it became evident that any attempt to determine the regional orientation of our three hundred fifty-one cities and towns could not omit this important factor. However, since detailed information of this type was not available, the Division surveyed over 2,500 manufacturers in September, 1960, to locate the place of residence of their employees. Almost 65% responded. The results were scored and included as one of nine determinants for regional orientation.

This booklet presents the "raw data" assembled in the commuting survey for one of ten areas in the Commonwealth. Several booklets were used, because a single presentation would be unwieldly and, in most instances, unnecessary. Practical considerations, as well as existing and proposed regional organizations and study efforts governed the choice of areas, but the cities and towns included in a particular area do not necessarily form a logical or effective planning region. Booklets are available for the following Areas: Berkshire, Pioneer Valley, Central Massachusetts, Merrimack Valley, Southeastern Massachusetts, the Coastal Plain, and Massachusetts Bay, West, North, South and Central.

II. Method

The survey was taken for maximum inclusion of covered manufacturing employees; i. e., those whose employers report to the Massachusetts Division of Employment Security and which fall into the manufacturing categories of the Standard Industrial Classification. Questionnaires were sent to enough manufacturers in a city or town to locate nearly all reported employees. In most instances, this meant a questionnaire to all employers of over twenty-five workers. None were sent to employers of under twenty-five. In large manufacturing centers, however, fifty was the minimum.

The questionnaires which were returned were recorded and totaled to show the place of residence of persons working in each city or town. Then an analysis was made to determine the converse--the place of employment of those residing in the various cities and towns. Many communities did not have a manufacturer large enough to survey; others did not respond. Thus there are no tabulations for many minor manufacturing towns.

For comparison and control, the number of employees included in the survey return for each city and town were measured against the number of employees reported to the Division of Employment Security from each community. Some employers did not send up-to-date information or may have listed certain "non-covered" employees, and, though a valuable indicator of survey coverage, the comparison may be somewhat inaccurate.

In this booklet, every municipality in the areas described on the cover is listed to show:

(a) The place of residence of those working in each city and town from which information was received.

(b) The place of employment of those residing in each city and town which was indicated in "place of residence" information.

(c) Comparisons and totals:

1. The employees included in the "place of residence" survey.

2. The number of employees reported to the Division of Employment Security as working in all (manufacturing and non-manufacturing) categories of industry, during September, 1960.

3. The number of employees reported to the Division of Employment Security as employed in manufacturing in September, 1960.

4. The percentage of survey returns to reported manufacturing employment.

MASSACHUSETTS BAY

SOUTH

Abington
Avon
Braintree
Bridgewater
Brockton
Cohasset
Duxbury
East Bridgewater
Easton
Halifax
Hanover
Hanson
Hingham
Holbrook
Hull
Marshfield
Norwell
Pembroke
Quincy
Rockland
Scituate
Stoughton
West Bridgewater
Weymouth
Whitman

(25)

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Abington

(a) Local Employees' Place of Residence:

Abington	180	Rockland	103	Whitman	52
Brockton	36	Hanover	23	E. Bridgewater	13
Weymouth	17	Hanson	17	Holbrook	16
Quincy	7	Hingham	3	Cohasset	3
Stoughton	2	Duxbury	2	Misc. Mass.	0
Marshfield	2	W. Bridgewater	1	Total Mass.	499
Pembroke	7	Norwell	1	Misc. O. S.	9
Lincoln	1	Marblehead	1	Total O. S.	9
Bridgewater	11	Middleboro	1	Total	508

(b) Local Residents' Place of Employment:

Abington	180	Whitman	49	Brockton	45
Avon	7	Bridgewater	4	Stoughton	3
Holbrook	1	Quincy	439	Rockland	92
Norwood	5	Pembroke	2	Braintree	45
Milton	15	Weymouth	15	Hanover	15
Dedham	4	Hingham	3	Total	928
Hanson	3	Randolph	1		

(c) Totals:

1. Employees included in survey returns: 508
2. Covered employment in all classifications: 1478
3. Covered manufacturing employment: 553
4. % Survey returns to covered manufacturing employment: 92

Town of Avon

(a) Local Employees' Place of Residence:

Avon	57	Pembroke	4	Medfield	1
Brockton	230	Easton	7	Dedham	1
Holbrook	30	Hanson	4	Cambridge	1
W. Bridgewater	14	Kingston	4	Westwood	1
Randolph	12	Hanover	3	Upton	1
Stoughton	9	Middleboro	3	Misc. Mass.	0
Whitman	8	Quincy	2	Total Mass.	423
Abington	7	Plymouth	2	Misc. R. I.	1
E. Bridgewater	7	Wareham	3	Total R. I.	1
Rockland	6	Marshfield	2	Total Maine	1
Bridgewater	6	Halifax	2	Total O. S.	2
Fall River	5	Scituate	1		
Weymouth	5	Hingham	1	Total	427
Taunton	5	Norwell	1		

COMMUTING PATTERNS TO COVERED MANUFACTURING EMPLOYEES

Avon (continued)

(b) Local Residents' Place of Employment:

Norwood	3	Avon	57	Brockton	45
Whitman	4	Stoughton	4	Bridgewater	2
Easton	1	Quincy	54	Milton	2
Canton	2	Rockland	2	Randolph	1
				Total	177

(c) Totals:

1. Employees included in survey returns: 427
2. Covered employment in all classifications: 449
3. Covered manufacturing employment: 119
4. % Survey returns to covered manufacturing employment: 359

Town of Braintree

(a) Local Employees' Place of Residence:

Braintree	625	Dedham	14	Stoughton	1
Quincy	403	Medford	13	Somerville	1
Weymouth	371	Cambridge	13	Scituate	1
Boston	359	Hanson	12	Easton	1
Brockton	207	Norwell	10	Marshfield	1
Holbrook	110	Pembroke	6	Misc. Mass.	12
Rockland	91	Hull	5	Total Mass.	2420
Abington	45	Holbrook	4	Total O. S.	0
Whitman	39	Hanover	3	Total	2420
Hingham	27	Milton	3		
Randolph	24	Middleboro	2		
Bridgewater	17	Walpole	2		

(b) Local Residents' Place of Employment:

Boston	190	Cambridge	43	Waltham	24
Norwood	6	Holbrook	14	Brockton	16
Quincy	1467	Braintree	625	Weymouth	58
Hingham	7	Dedham	13	Milton	6
Canton	2	Rockland	2	Natick	4
Brookline	2	Newton	6	Total	2485

(c) Totals:

1. Employees included in survey returns: 2420
2. Covered employment in all classifications: 5871
3. Covered manufacturing employment: 2510
4. % Survey returns to covered manufacturing employment: 96

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Bridgewater

(a) Local Employees Place of Residence:

Bridgewater	648	Plymouth	4	Norwood	1
Brockton	183	Duxbury	4	Hanover	1
Taunton	104	Dighton	4	Braintree	1
Middleboro	89	Abington	4	Fairhaven	1
E.Bridgewater	34	Raynham	3	Stoughton	1
W.Bridgewater	23	Hanson	3	Boston	1
Whitman	19	Kingston	2	Plymouth	1
Fall River	13	Avon	2	Misc. Mass.	13
Easton	9	Pembroke	2	Total Mass.	1202
Lakeville	9	Wareham	2	Total O. S.	0
N. Bedford	7	Somerset	2	Total	1202
Halifax	5	Marshfield	1		
Carver	5	Freetown	1		

(b) Local Residents' Place of Employment:

Bridgewater	648	Brockton	79	Whitman	51
E.Bridgewater	36	Stoughton	30	Abington	11
Middleboro	55	Norwood	10	N. Bedford	[illegible]
Taunton	4	Dighton	4	Pembroke	3
Mansfield	3	Easton	9	Avon	6
Holbrook	1	Canton	3	Stoughton	7
Quincy	57	Weymouth	8	Hanover	9
Hanson	3			Total	1041

(c) Totals:

1. Employees ihcluded in survey returns: 1202
2. Covered employment in all classifications: 1878
3. Covered manufacturing employment: 1415
4. % Survey returns to covered manufacturing employment: 85

City of Brockton

(a) Local Employees' Place of Residence:

Brockton	2072	Whitman	82	Bridgewater	79
W.Bridgewater	67	Easton	63	E. Bridgewater	62
Randolph	52	Avon	45	Abington	45
Taunton	49	Rockland	32	Dedham	29
Stoughton	29	Holbrook	24	Middleboro	28
Braintree	16	Quincy	12	Weymouth	12
Hanson	13	Hanover	11	Boston	15
Kingston	8	Canton	5	Halifax	4
Marshfield	4	New Bedford	6	Pembroke	5

COMMUTING PATTERNS TO COVERED MANUFACTURING EMPLOYEES

Brockton (continued)

Plymouth	4	Scituate	3	Misc. Mass.	30
Brookline	3	Wareham	3	Total Mass.	2937
Milton	3	Needham	2	Misc. R. I.	1
Norwood	3	Walpole	2	Total R. I.	1
Carver	3	Wellesley	2	Total O. S.	1
Duxbury	3	Hingham	2	Total	3938
Norwell	3	Lakeville	2		

(b) Local Residents' Place of Employment:

Brockton	2072	Whitman	295	Stoughton	251
Avon	210	Bridgewater	183	Easton	49
E.Bridgewater	45	Abington	36	Holbrook	29
Middleboro	55	Walpole	43	Norwood	36
Taunton	25	Dighton	18	New Bedford	17
Mansfield	12	Dartmouth	5	Pembroke	3
Raynham	2	Attleboro	2	Kingston	1
W.Bridgewater	9	Quincy	793	Brainntree	207
Weymouth	58	Rockland	58	Hanover	36
Canton	33	Hanson	17	Dedham	11
Milton	9	Randolph	2	Boston	247
Needham	13	Lynn	9	Total	4891

(c) Totals:

1. Employees included in survey returns: 3938
2. Covered employment in all classifications: 20681
3. Covered manufacturing employment: 8147
4. % Survey returns to covered manufacturing employment: 36

Town of Cohasset

(a) Local Employees' Place of Residence:

Cohasset	127	Quincy	15	Duxbury	1
Scituate	120	Hanover	10	Misc. Mass.	10
Hingham	51	Pembroke	5	Total Mass.	418
Weymouth	46	Kingston	4	Total O. S.	0
Marshfield	25	Plymouth	4	Total	418

(b) Local Residents' Place of Employment:

Abington	3	Cohasset	127	Quincy	107
Hingham	10	Weymouth	2	Total	249

(c) Totals:

1. Employees included in survey returns: 418
2. Covered employment in all classifications: 1036

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Cohasset (continued)

3. Covered manufacturing employment: 406

4. % Survey returns to covered manufacturing employment: 103

Town of Duxbury

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Pembroke	9	Kingston	2	Plymouth	1
Abington	2	Brockton	3	Bridgewater	4
Quincy	45	Rockland	9	Hanson	9
Hanover	5	Cohasset	1	Total	90

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 304

3. Covered manufacturing employment: 10

4. % Survey returns to covered manufacturing employment: 0

Town of East Bridgewater

(a) Local Employees' Place of Residence:

E.Bridgewater	89	Brockton	45	Bridgewater	36
Middleboro	13	Whitman	11	W.Bridgewater	8
Easton	4	Hanson	2	Carver	2
Boston	2	Halifax	1	Quincy	1
Fall River	1	Freetown	1	Pembroke	1
Raynham	1	Hingham	1	Stoughton	1
Rockland	1	Lakeville	1	Misc. Mass.	0
Randolph	1	Mattapoisett	1	Total Mass.	227
Weymouth	1	Abington	1	Total O. S.	0
Taunton	1			Total	227

(b) Local Residents' Place of Employment:

Raynham	2	E. Bridgewater	89	Whitman	87
Brockton	62	Bridgewater	34	Abington	13
Avon	7	Quincy	63	Hanover	5
Hanson	4			Total	366

(c) Totals:

1. Employees included in survey returns: 227

2. Covered employment in all classifications: 620

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

East Bridgewater (continued)

3. Covered manufacturing employment: 339

4. % Survey returns to covered manufacturing employment: 67

Town of Easton

(a) Local Employees' Place of Residence:

Easton	107	W. Bridgewater	4	Avon	1
Brockton	49	Westport	4	Misc. Mass.	0
Taunton	35	Mansfield	4	Total Mass.	240
Fall River	10	Raynham	3	Total O. S.	0
Bridgewater	9	Somerset	2	Total	240
Norton	5	Dedham	1		
Whitman	5	Milton	1		

(b) Local Residents' Place of Employment:

Easton	107	Brockton	63	Stoughton	44
Bridgewater	9	Avon	7	Mansfield	19
Norwood	17	Attleboro	11	Dighton	8
Middleboro	3	Taunton	3	Walpole	3
Norton	2	E.Bridgewater	4	Whitman	4
Quincy	46	Canton	9	Randolph	2
Boston	56			Total	417

(c) Totals:

1. Employees included in survey returns: 240

2. Covered employment in all classifications: 1106

3. Covered manufacturing employment: 607

4. % Survey returns to covered manufacturing employment: 40

Town of Halifax

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Middleboro	6	Whitman	12	Bridgewater	5
Brockton	4	Avon	4	Quincy	14
Hanson	13	Weymouth	2	Total	60

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 91

3. Covered manufacturing employment: 11

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Halifax (continued)

4. % Survey returns to covered manufacturing employment: 0

Town of Hanover

(a) Local Employees' Place of Residence:

Hanover	46	Hingham	6	Carver	1
Brockton	36	Marshfield	5	Holbrook	1
Rockland	28	Duxbury	5	Mattapoisett	1
Pembroke	21	Boston	5	Quincy	1
Abington	15	Scituate	5	Stoughton	1
Plymouth	11	E.Bridgewater	5	Wakefield	1
Weymouth	11	Norwell	3	Misc. Mass.	0
Whitman	10	Randolph	3	Total Mass	243
Bridgewater	9	Marion	2	Total O. S.	0
Hanson	9	Kingston	2	Total	243

(b) Local Residents' Place of Employment:

Pembroke	9	Abington	23	Whitman	12
Brockton	11	Avon	3	Holbrook	2
Quincy	163	Rockland	52	Hanover	46
Cohasset	10	Milton	7	Hingham	5
Weymouth	7	Braintree	3	Total	353

(c) Totals:

1. Employees included in survey returns: 243
2. Covered employment in all classifications: 965
3. Covered manufacturing employment: 80
4. % Survey returns to covered manufacturing employment: 30

Town of Hanson

(a) Local Employees' Place of Residence:

Hanson	84	Plymouth	36	Pembroke	29
Whitman	24	Kingston	22	Brockton	17
Wareham	16	Halifax	13	Bourne	10
Duxbury	9	Middleboro	7	E. Bridgewater	4
Abington	3	Marion	3	Marshfield	3
Weymouth	2	Taunton	2	Carver	2
Rockland	2	Bridgewater	3	Harwich	1
Chatham	1	Belmont	1	W. Bridgewater	1
Foxboro	1	Plymouth	1	Lakeville	1
Dennis	1	Easton	1	Total	300

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Hanson (continued)

(b) Local Residents' Place of Employment:

Pembroke	5	Whitman	84	Abington	17
Brockton	13	Avon	4	Bridgewater	3
E.Bridgewater	2	Stoughton	2	Quincy	85
Hanson	84	Rockland	33	Braintree	12
Hanover	9			Total	353

(c) Totals:

1. Employees included in survey returns: 300
2. Covered employment in all classifications: 750
3. Covered manufacturing employment: 536
4. % Survey returns to covered manufacturing employment: 56

Town of Hingham

(a) Local Employees' Place of Residence:

Hingham	27	Rockland	5	Norwell	2
Weymouth	33	Boston	4	Pembroke	2
Quincy	26	Randolph	4	Plymouth	2
Cohasset	10	Abington	3	Misc. Mass.	9
Scituate	8	Newton	3	Total Mass.	160
Hull	8	Hanover	5	Total O. S.	0
Braintree	7	Marshfield	2	Total	160

(b) Local Residents' Place of Employment:

Quincy	397	Cohasset	51	Braintree	27
Hingham	27	Weymouth	19	Rockland	10
Abington	3	Norwood	4	Pembroke	2
Brockton	2	Holbrook	1	Avon	1
Hanover	6	Dedham	5	Boston	20
				Total	575

(c) Totals:

1. Employees included in survey returns: 160
2. Covered employment in all classifications: 2196
3. Covered manufacturing employment: 564
4. % Survey returns to covered manufacturing employment: 28

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Holbrook

(a) Local Employees' Place of Residence:

Holbrook	14	Middleboro	2	Plymouth	1
Brockton	29	Hanover	2	Rockland	1
Braintree	14	Stoughton	3	Hingham	1
Quincy	12	Plymouth	1	Abington	1
Randolph	7	Bridgewater	1	Fall River	1
Whitman	5	Milton	1	Medford	1
Weymouth	4	Norwell	1	Misc. Mass.	0
Marshfield	3	Taunton	1	Total Mass.	109
Boston	2			Total	109

(b) Local Residents' Place of Employment:

Norwood	4	Avon	30	Brockton	74
Abington	16	Holbrook	14	Whitman	2
Quincy	184	Braintree	114	Total	400
Milton	7	Weymouth	5		

(c) Totals:

1. Employees included in survey returns: 109
2. Covered employment in all classifications: 1038
3. Covered manufacturing employment: 549
4. % Survey returns to covered manufacturing employment: 20

Town of Hull

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Whitman	2	Quincy	112	Hingham	8
Braintree	5	Weymouth	2	Total	130
Lynn	1				

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 667
3. Covered manufacturing employment: 1
4. % Survey returns to covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Marshfield

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment:

Quincy	83	Cohasset	25	Canton	11
Rockland	16	Hingham	2	Pembroke	8
Kingston	1	Holbrook	3	Brockton	4
Abington	2	Whitman	2	Hanson	3
Weymouth	6	Hanover	5	Lynn	1
				Total	172

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 567
3. Covered manufacturing employment: 72
4. % Survey returns to covered manufacturing employment: 0

Town of Norwell

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Pembroke	4	Dartmouth	1	Brockton	3
Avon	1	Holbrook	1	Quincy	109
Rockland	13	Braintree	10	Weymouth	8
Hanover	3	Hingham	2	Total	155

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 314
3. Covered manufacturing employment: 48
4. % Survey returns to covered manufacturing employment: 0

Town of Pembroke

(a) Local Employees' Place of Residence:

Pembroke	23	Rockland	10	Hanover	9
Duxbury	9	Marshfield	8	Weymouth	7
Whitman	6	Hanson	5	Norwell	4

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Pembroke (continued)

Bridgewater	3	Abington	2	Total O. S.	0
Kingston	2	Misc. Mass.	4	Total	97
Hingham	2	Total Mass.	97		
Brockton	3				

(b) Local Residents' Place of Employment:

Pembroke	23	Abington	7	Avon	4
Whitman	64	Brockton	5	Quincy	160
Rockland	36	Hanson	29	Hanover	21
Cohasset	5	Braintree	6	Hingham	2
				Total	362

(c) Totals:

1. Employees included in survey returns: 97
2. Covered employment in all classifications: 420
3. Covered manufacturing employment: 132
4. % Survey returns to covered manufacturing employment: 73

City of Quincy

(a) Local Employees' Place of Residence:

Quincy	5941	Whitman	175	Revere	40
Weymouth	2171	Stoughton	87	Lynn	39
Boston	1883	Hanson	85	Malden	33
Braintree	1467	Marshfield	83	Everett	31
Brockton	793	Canton	79	Medford	32
Rockland	492	Dedham	63	Taunton	36
Hingham	397	Fall River	68	W.Bridgewater	36
Randolph	228	E.Bridgewater	63	Chelsea	29
Holbrook	184	Somerville	60	Misc. Mass.	1049
Milton	184	Bridgewater	57	Total Mass.	17659
Abington	139	Kingston	59	Misc. R.I.	88
Hanover	163	Avon	54	Total R.I.	88
Pembroke	110	Brookline	51	Misc. N.Y.	51
Hull	112	Cambridge	52	Total N.Y.	51
Cohasset	107	Newton	44	Misc. O.S.	3
Norwell	102	Duxbury	45	Total O.S.	142
Plymouth	140	Easton	46	Gr. Total	17811
Scituate	152	Middleborough	41		

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Quincy (continued)

(b) Local Residents' Place of Employment:

Boston	589	Holbrook	12	Dedham	70
Cambridge	64	Abington	7	Milton	24
Waltham	27	Avon	2	Cohasset	15
Somerville	18	Quincy	5941	Canton	2
Norwood	48	Braintree	401	Bedford	3
Millis	14	Weymouth	36	Melrose	5
Brockton	12	Hingham	26	Lynn	15
				Total	7336

(c) Totals:

1. Employees included in survey returns: 11811
2. Covered employment in all classifications: 14462
3. Covered manufacturing employment: 19585
4. % Survey returns to covered manufacturing employment: 91

Town of Rockland

(a) Local Employees' Place of Residence:

Rockland	416	Middleborough	21	Scituate	3
Hanover	52	Marshfield	16	Milton	2
Abington	92	Bridgewater	14	Boston	2
Brockton	58	Norwell	13	Kingston	3
Whitman	38	Plymouth	11	Braintree	2
Pembroke	36	Hingham	10	Belmont	2
Weymouth	32	Duxbury	9	Avon	2
Hanson	33	Taunton	4	Misc. Mass.	8
				Gr. Total	872

(b) Local Residents' Place of Employment:

Quincy	492	Pembroke	10
Rockland	416	Abington	103
Braintree	91	Whitman	41
Weymouth	44	Brockton	32
Hanover	28	Abon	6
Hingham	5	Holbrook	1
Hanson	2	Total	1271

(c) Totals:

1. Employees included in survey returns: 879
2. Covered employment in all classifications: 2273
3. Covered manufacturing employment: 1246
4. % Survey returns to covered manufacturing employment: 71

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYMENT

Town of Scituate

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Brockton	3	Hanover	5
Quincy	152	Weymouth	4
Cohasset	120	Rockland	3
Hingham	8	Total	295

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 245
3. Covered manufacturing employment: 26
4. % Survey returns to covered manufacturing employment: 0

Town of Stoughton

(a) Local Employees' Place of Residence:

Stoughton	568	Avon	4	Halifax	1
Brockton	253	Abington	3	Millis	1
Easton	44	Hanson	2	Wrentham	1
Fall River	42	Woburn	2	Rockland	1
Taunton	36	Attleboro	2	Mansfield	1
Canton	33	Dedham	2	Sudbury	1
Bridgewater	30	Westwood	2	Lawrence	1
New Bedford	30	N. Attleboro	2	Misc. Mass.	42
Boston	8	Foxboro	2	Misc. R.I.	1
Sharon	7	Raynham	2	Total O.S.	1
Randolph	5	Marshfield	1	Gr. Total	1146
Whitman	4	Revere	1		
Norwood	4	Somerset	1		
Walpole	3	Weymouth	1		
Middleborough	3	Plainville	1		

(b) Local Residents' Place of Employment:

Boston	159	Stoughton	568	Quincy	87
Cambridge	12	Brockton	29	Canton	76
Norwood	98	Avon	9	Dedham	7
Walpole	52	Holbrook	3	Needham	6
Dighton	5	Whitman	2	Lynn	15
Wrentham	3	Abington	2	Total	1133

(c) Totals:

1. Employees included in survey returns: 1146
2. Covered employment in all classifications: 2732

Stoughton (continued)

3. Covered manufacturing employment: 1646

4. % Survey returns to covered manufacturing employment: 70

Town of West Bridgewater

(a) Local Employees' Place of Residence:

Brockton	9
W. Bridgewater	1
Total	10

(b) Local Residents' Place of Employment:

Brockton	67	Middleborough	3	Quincy	6
Bridgewater	23	Whitman	4	Rockland	14
Avon	14	Easton	4	Total	144
W. Bridgewater	8	W. Bridgewater	1		

(c) Totals:

1. Employees included in survey returns: 10

2. Covered employment in all classifications: 145

3. Covered manufacturing employment: 152

4. % Survey returns to covered manufacturing employment: 6

Town of Weymouth

(a) Local Employees' Place of Residence:

Weymouth	420	Bridgewater	8	Cohasset	2
Braintree	58	Hanover	7	Hull	2
Brockton	58	Whitman	6	Sharon	2
Rockland	44	Marshfield	6	Halifax	2
Quincy	36	Holbrook	5	Misc. Mass.	17
Hingham	19	Boston	5	Gr. Total	728
Abington	15	Scituate	4		
Norwell	8	Randolph	4		

(b) Local Residents' Place of Employment:

Boston	180	Avon	5	Dedham	14
Waltham	33	Holbrook	4	Hanover	11
Cambridge	17	Quincy	2171	Hanson	2
Somerville	2	Weymouth	420	Canton	1
Norwood	55	Braintree	371	Needham	6
Pembroke	7	Hingham	33	Watertown	5
Foxboro	1	Cohasset	46	Newton	3
Abington	17	Rockland	32	Total	3460
Whitman	8	Milton	16		

Weymouth (continued)

(c) Totals:

1. Employees included in survey returns: 728

2. Covered Employment in all classifications: 4334

3. Covered manufacturing employment: 954

4. % Survey returns to covered manufacturing employment: 76

Town of Whitman

(a) Local Employees' Place of Residence:

Whitman	571	W. Bridgewater	4	Norwell	1
Brockton	295	Weymouth	8	Scituate	1
E. Bridgewater	87	Avon	4	Fairhaven	-
Plymouth	59	Easton	4	Milton	2
Hanson	84	Holbrook	2	Wareham	1
Pembroke	64	Marshfield	2	Canton	1
Bridgewater	51	Braintree	2	Worcester	1
Rockland	41	Stoughton	2	Yarmouth	1
Abington	51	Plympton	2	Lakeville	1
Kingston	32	Hull	2	Misc. Mass.	37
Halifax	12	New Bedford	1	Total Mass.	1451
Hanover	12	Attleboro	1	Gr. Total	1451
Middleborough	8	Carver	1		

(b) Local Residents' Place of Employment:

Whitman	571	Easton	5	Braintree	39
Brockton	82	Pembroke	6	Rockland	38
Abington	52	Middleborough	3	Hanson	24
Bridgewater	19	Mansfield	2	Hanover	10
E. Bridgewater	11	Dartmouth	1	Weymouth	6
Avon	8	Stoughton	4	Total	1092
Holbrook	5	Quincy	175		

(c) Totals:

1. Employees included in survey returns: 1451

2. Covered employment in all classifications: 2912

3. Covered manufacturing employment: 1850

4. % Survey returns to covered manufacturing employment: 78

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3 MASS.

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MANUFACTURING COMMUTING SURVEY

[3] MASSACHUSETTS BAY WEST

DIVISION OF PLANNING, MAY, 1963
from a survey taken September, 1960

Massachusetts
Department of
Commerce

150 CAUSEWAY STREET
BOSTON 14
LA 3-6640

COMMUTING SURVEY OF COVERED MANUFACTURING EMPLOYEES
September, 1960

I. Introduction

An important indicator of the social and economic influence of a community or a region is the relationship between its labor force and the location of their employment. The commuting patterns of an employee reveal in general terms his income, his skills, and his overall orientation to the economy. From this, the task of judging the optimum location of highways, plants, commercial and other facilities dependent upon easy access, markets, and labor force is facilitated.

Thus, when the Division of Planning was preparing its Study of Areas for Regional Planning, published in December, 1960, it became evident that any attempt to determine the regional orientation of our three hundred fifty-one cities and towns could not omit this important factor. However, since detailed information of this type was not available, the Division surveyed over 2,500 manufacturers in September, 1960, to locate the place of residence of their employees. Almost 65% responded. The results were scored and included as one of nine determinants for regional orientation.

This booklet presents the "raw data" assembled in the commuting survey for one of ten areas in the Commonwealth. Several booklets were used, because a single presentation would be unwieldly and, in most instances, unnecessary. Practical considerations, as well as existing and proposed regional organizations and study efforts governed the choice of areas, but the cities and towns included in a particular area do not necessarily form a logical or effective planning region. Booklets are available for the following Areas: Berkshire, Pioneer Valley, Central Massachusetts, Merrimack Valley, Southeastern Massachusetts, the Coastal Plain, and Massachusetts Bay, West, North, South and Central.

II. Method

The survey was taken for maximum inclusion of covered manufacturing employees; i. e., those whose employers report to the Massachusetts Division of Employment Security and which fall into the manufacturing categories of the Standard Industrial Classification. Questionnaires were sent to enough manufacturers in a city or town to locate nearly all reported employees. In most instances, this meant a questionnaire to all employers of over twenty-five workers. None were sent to employers of under twenty-five. In large manufacturing centers, however, fifty was the minimum.

The questionnaires which were returned were recorded and totaled to show the place of residence of persons working in each city or town. Then an analysis was made to determine the converse--the place of employment of those residing in the various cities and towns. Many communities did not have a manufacturer large enough to survey; others did not respond. Thus there are no tabulations for many minor manufacturing towns.

For comparison and control, the number of employees included in the survey return for each city and town were measured against the number of employees reported to the Division of Employment Security from each community. Some employers did not send up-to-date information or may have listed certain "non-covered" employees, and, though a valuable indicator of survey coverage, the comparison may be somewhat inaccurate.

In this booklet, every municipality in the areas described on the cover is listed to show:

(a) The place of residence of those working in each city and town from which information was received.

(b) The place of employment of those residing in each city and town which was indicated in "place of residence" information.

(c) Comparisons and totals:

1. The employees included in the "place of residence" survey.

2. The number of employees reported to the Division of Employment Security as working in all (manufacturing and non-manufacturing) categories of industry, during September, 1960.

3. The number of employees reported to the Division of Employment Security as employed in manufacturing in September, 1960.

4. The percentage of survey returns to reported manufacturing employment.

MASSACHUSETTS BAY

WEST

Ashland
Ayer
Bellingham
Berlin
Blackstone
Bolton
Boxborough
Clinton
Framingham
Franklin
Groton
Harvard
Holliston
Hopedale
Hopkinton
Hudson
Lancaster
Littleton
Marlborough
Maynard
Medway
Mendon
Milford
Millis
Millville
Natick
Northborough
Northbridge
Sherborn
Shirley
Southborough
Stow
Sudbury
Upton
Uxbridge
Wayland
Westborough

(37)

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Ashland

(a) Local Employees' Place of Residence:

Ashland	280	Needham	7	Waltham	2
Framingham	366	Hopedale	6	Shrewsbury	2
Milford	138	Medway	6	Millis	2
Hopkinton	126	Northboro	6	Grafton	2
Marlboro	97	Mendon	6	Concord	2
Natick	86	Sudbury	6	Braintree	2
Holliston	71	Wellesley	5	Misc. Mass.	299
Southboro	47	Walpole	4	Total Mass.	1652
Westboro	15	Wayland	4	Misc. R. I.	5
Worcester	14	Boston	3	Total R. I.	5
Upton	12	Sherborn	3	Misc. O. S.	34
Bellingham	8	Medfield	3	Total O. S.	39
Franklin	8	Berlin	3	Total	1691
Hudson	8	Newton	3		

(b) Local Residents' Place of Employment:

Ashland	280	Maynard	13	Westboro	6
Holliston	6	Framingham	224	Wayland	25
Natick	24	Needham	6	Sudbury	3
Newton	5			Total	592

(c) Totals:

1. Employees included in survey returns: 1691
2. Covered employment in all classifications: 2342
3. Covered manufacturing employment: 1853
4. % Survey returns to covered manufacturing employment: 91

Town of Ayer

(a) Local Employees' Place of Residence:

Ayer	188	Westford	18	Total Mass.	404
Shirley	38	Pepperell	13	Total O. S.	0
Littleton	35	Harvard	8	Total	404
Leominster	28	Lowell	2		
Groton	19	Misc. Mass.	55		

(b) Local Residents' Place of Employment:

Ayer	188	Shirley	38	Littleton	36
Fitchburg	12	Maynard	11	Leominster	6
Groton	5	Pepperell	11	Total	307

(c) Totals:

1. Employees included in survey returns: 404

Ayer (continued)

2. Covered employment in all classifications: 1333

3. Covered manufacturing employment: 516

4. % Survey returns to covered manufacturing employment: 78

Town of Bellingham

(a) Local Employees' Place of Residence:

Bellingham	74	Norwood	3	Total Mass.	268
Franklin	49	Sutton	3	Woonsocket	116
Medway	24	Norfolk	2	Misc. R. I.	28
Uxbridge	23	Millville	2	Total R. I.	144
Milford	23	Millbury	2	Total Out State	144
Douglas	34	Mendon	2	Grand Total	412
Blackstone	14	Misc. Mass.	13		

(b) Local Residents' Place of Employment:

Upton	1	Uxbridge	12	Holliston	6
Hopedale	85	Ashland	8	Plainville	4
Bellingham	74	Millville	7	Wrentham	3
Milford	31	Attleboro	7	Medfield	2
Millis	10	Norwood	7	Framingham	82
Medway	9	Franklin	26	Total	374

(c) Totals:

1. Employees included in survey returns: 412

2. Covered employment in all classifications: 825

3. Covered manufacturing employment: 436

4. % Survey returns to covered manufacturing employment: 94%

Town of Berlin

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Clinton	47	Hudson	23	Marlboro	8
Northboro	1	Southboro	6	Maynard	5
Stow	4	Ashland	3	Sudbury	3
				Total	100

(c) Totals:

1. Employees included in survey returns: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Berlin (continued)

2. Covered employment in all classifications: 361

3. Covered manufacturing employment: 15

4. % Survey returns to covered manufacturing employment: 0

Town of Blackstone

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment:

Blackstone	0	Hopedale	85	Uxbridge	69
Franklin	26	Millville	16	Bellingham	14
Douglas	6	N. Attleboro	3	Attleboro	2
Plainville	2	Milford	2	Total	260
Millbury	2	Framingham	33		

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 284

3. Covered manufacturing employment: 63

4. % Survey returns to covered manufacturing employment: 0

Town of Bolton

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Clinton	41	Hudson	9	Northboro	2
				Total	52

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 55

3. Covered manufacturing employment: 11

4. % Survey returns to covered manufacturing employment: 0

Town of Boxborough

(a) Local Employees' Place of Residence: Too few for survey

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Boxborough (continued)

(b) Local Residents' Place of Employment:

Littleton	4	Lynn	1	Total	5

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications 26
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment 0

Town of Clinton

(a) Local employees' Place of Residence:

Clinton	1386	Shirley	22	Maynard	2
Lancaster	178	Marlboro	7	Winchendon	2
Sterling	105	Harvard	5	Brookline	2
Leominster	100	Holden	5	Westminster	2
Worcester	94	Northboro	4	Misc. Mass.	33
Fitchburg	69	Shrewsbury	4	Total Mass.	2204
W. Boylston	51	Millbury	3	Misc. R. I.	4
Berlin	47	Lunenburg	3	Total R. I.	4
Bolton	41	Lowell	2	Total O. S.	4
Hudson	35	Gardner	2	Total	2208

(b) Local Residents' Place of Employment:

Clinton	1386	Worcester	76	Hudson	7
Leicester	5	Millbury	4	Marlboro	3
Shrewsbury	2	Palmer	125	Leominster	19
Maynard	8	Acton	5	Fitchburg	5
Oxford	2	Lancaster	1	Framingham	13
				Total	1661

(c) Totals:

1. Employees included in survey returns: 2208
2. Covered employment in all classifications: 5196
3. Covered manufacturing employment: 4109
4. % Survey returns to covered manufacturing employment: 54

Town of Framingham

(a) Local Employees' Place of Residence:

Framingham	1930	Wayland	51	Watertown	8
Natick	407	Blackstone	33	Fall River	6
Milford	292	Wellesley	27	Southbridge	7
Marlborough	196	Franklin	24	Mendon	5
Ashland	224	Southboro	43	Dedham	5
Maynard	108	Westboro	35	Lowell	6
Worcester	91	Millis	23	Walpole	6
Hopkinton	122	Needham	15	Misc. Mass.	262
Holliston	138	Clinton	13	Total Mass.	4527
Bellingham	82	Shrewsbury	15	Woonsocket	251
Hudson	62	Hopedale	31	Pawtucket & CF	7
Boston	56	Norwood	10	Misc. R. I.	34
Medway	51	Cambridge	9	Total R. I.	292
Northbridge	34	Northboro	15	Misc. O. S.	9
Newton	32	Upton	16	Total O. S.	301
Waltham	30	Brockton	7	Grand Total	4828

(b) Local Residents' Place of Employment:

Waltham	103	Boston	27	Marlboro	42
Hudson	7	Ashland	366	Maynard	93
Holliston	9	Westboro	9	Southboro	2
Medway	2	Norwood	5	Medfield	2
Canton	4	Framingham	1930	Wayland	204
Natick	143	Needham	20	Watertown	19
Wellesley	24	Burlington	18	Sudbury	17
Bedford	12	Concord	3	Newton	46
Lynn	3			Total	3110

(c) Totals:

1. Employees included in survey returns: 4828

2. Covered employment in all classifications: 14416

3. Covered manufacturing employment: 6723

4. % Survey returns to covered manufacturing employment: 72

Town of Franklin

(a) Local Employees' Place of Residence:

Franklin	456	Norwood	3	Falmouth	1
Bellingham	26	Uxbridge	3	Somerset	1
Blackstone	26	Hopedale	2	Upton	1
Milford	9	Attleboro	2	Norfolk	1
Wrentham	8	Worcester	1	Walpole	1
N. Attleboro	5	Warren	1	Misc. Mass.	1
Medway	5	Framingham	1	Total Mass.	554

Franklin (Continued)

Woonsocket	107	Total R. I.	115	Grand Total	669
Misc. R. I.	8	Total O. S.	115		

(b) Local Residents' Place of Employment:

Cambridge	30	Franklin	456	Walpole	146
Bellingham	49	Wrentham	37	Plainville	36
Norwood	26	Norfolk	11	N. Attleboro	15
Medway	10	Millis	10	Ashland	8
Mansfield	5	Attleboro	5	Uxbridge	4
Holliston	4	Milford	3	Total	883
Framingham	24	Natick	4		

(c) Totals:

1. Employees included in survey returns: 669

2. Covered employment in all classifications: 1717

3. Covered manufacturing employment: 912

4. % Survey returns to covered manufacturing employment: 73

Town of Groton

(a) Local Employees' Place of Residence:

Groton	114	Fitchburg	3	Total Mass.	191
Pepperell	30	Lunenburg	2	Brookline	4
Shirley	12	Dunstable	1	Nashua	3
Westford	12	Billerica	1	Hudson	2
Townsend	10	Ashburnham	1	Misc. N. H.	2
Ayer	5	Misc. Mass.	0	Total N. H.	11
				Total Out State	11
				Grand Total	202

(b) Local Residents' Place of Employment:

Wilmington	1	Groton	114	Littleton	28
Westford	26	Pepperell	22	Ayer	19
Shirley	15	Maynard	6	Total	236
Acton	4	Lynn	1		

(c) Totals:

1. Employees included in survey returns: 202

2. Covered employment in all classifications: 561

3. Covered manufacturing employment: 394

4. % Survey returns to covered manufacturing employment: 51

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Harvard

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Clinton	5	Ayer	8	Acton	5
Westford	1	Concord	17	Total	36

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 101
3. Covered manufacturing employment: 24
4. % Survey returns to covered manufacturing employment: 0

Town of Holliston

(a) Local Employees' Place of Residence:

Holliston	76	Natick	5	Norfolk	2
Milford	33	Medway	4	N. Attleboro	3
Framingham	9	Mendon	4	Misc. Mass.	13
Hopkinton	6	Franklin	4	Total Mass.	191
Bellingham	6	Northbridge	4	Woonsocket	31
Ashland	6	Hopedale	2	Misc. R. I.	6
Upton	5	Wrentham	2	Total R. I.	37
Marlboro	5	Southboro	2	Total O. S.	37
				Total	228

(b) Local Residents' Place of Employment:

Marlboro	14	Holliston	76	Ashland	71
Hopedale	37	Maynard	7	Medway	3
Framingham	138	Wayland	23	Natick	22
Needham	6	Newton	5	Total	402

(c) Totals:

1. Employees included in survey returns: 228
2. Covered employment in all classifications: 660
3. Covered manufacturing employment: 429
4. % Survey returns to covered manufacturing employment: 54

Town of Hopedale

(a) Local Employees' Place of Residence:

Hopedale	655	Milford	1000	Upton	125
Mendon	130	Bellingham	85	Blackstone	85

Hopedale (continued)

Uxbridge	66	Misc. Mass.	0	Total	2235
Medway	52	Total Mass.	2235		
Holliston	37	Total O. S.	0		

(b) Local Residents' Place of Employment:

Hopedale	655	Milford	63	Ashland	6
Medfield	3	Franklin	2	Medway	2
Holliston	2	Marlboro	3	Framingham	31
				Total	767

(c) Totals:

1. Employees included in survey returns: 2235
2. Covered employment in all classifications: 3134
3. Covered manufacturing employment: 2989
4. % Survey returns to covered manufacturing employment: 75

Town of Hopkinton

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Marlboro	3	Ashland	126	Westboro	67
Maynard	8	Holliston	6	Southboro	2
Framingham	82	Wayland	17	Natick	11
Needham	3			Total	325

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 267
3. Covered manufacturing employment: 40
4. % Survey returns to covered manufacturing employment: 0

Town of Hudson

(a) Local Employees' Place of Residence:

Hudson	742	Cambridge	7	Somerville	3
Marlboro	136	Framingham	7	Acton	3
Boston	60	Clinton	7	Harvard	3
Berlin	23	Northboro	5	Southboro	2
Maynard	19	Grafton	4	Wellesley	2
Bolton	9	Worcester	4	Weston	2
Stow	9	Brookline	3	Sudbury	2

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Hudson (continued)

Shrewsbury	2	Waltham	1	Stoughton	1
Westboro	1	Brockton	1	Stoneham	1
Lincoln	1	Lexington	1	Woburn	1
Dover	1	Newton	1	Misc. Mass.	2
Concord	1	Arlington	1	Total Mass.	1074
Lynnfield	1	Belmont	1	Misc. R. I	1
Natick	1	Everett	1	Total R. I.	1
Wayland	1	Revere	1	Total O. S.	1
				Total	1075

(b) Local Residents' Place of Employment:

Waltham	10	Hudson	742	Marlboro	253
Clinton	35	Northboro	25	Maynard	115
Southboro	36	Acton	21	Westboro	17
Stow	13	Ashland	8	Leominster	2
Wayland	158	Framingham	62	Sudbury	17
Natick	5	Newton	27	Total	1546

(c) Totals:

1. Employees included in survey returns: 1075
2. Covered employment in all classifications: 2184
3. Covered manufacturing employment: 1402
4. % Survey returns to covered manufacturing employment: 77

Town of Lancaster

(a) Local Employees Place of Residence:

Lancaster	46	Clinton	1	Total	49
Leominster	1	Worcester	1		

(b) Local Residents' Place of Employment:

Clinton	178	Worcester	21	Lancaster	46
Leominster	22	Fitchburg	8	Shirley	1
				Total	276

(c) Totals:

1. Employees included in survey returns: 49
2. Covered employment in all classifications: 273
3. Covered manufacturing employment: 123
4. % Survey returns to covered manufacturing employment: 40

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Littleton

(a) Local Employees' Place of Residence:

Littleton	168	Lunenburg	5	Lynn	2
Lowell	106	Malden	5	Leominster	2
Westford	83	Concord	5	Cambridge	2
Chelmsford	31	Tyngsboro	4	Methuen	2
Ayer	36	Boxboro	4	Reading	2
Groton	28	Shirley	3	Saugus	2
Dracut	14	Tewksbury	3	West Boylston	2
Pepperell	12	Medford	3	Misc. Mass.	23
Boston	10	Wakefield	3	Total Mass.	634
Acton	12	Belmont	3	Salem	1
Somerville	8	Revere	3	Plaistow	2
Townsend	7	Marlboro	3	Misc. N. H.	6
Maynard	6	Weymouth	2	Total N. H.	9
Melrose	6	Worcester	2	Misc. R. I.	4
Stow	6	Harvard	2	Total R. I.	4
Billerica	5	Gardner	2	Others	10
Everett	5	Hudson	2	Total Out State	23
				Grand Total	657

(b) Local Residents' Place of Employment:

Waltham	26	Lowell	9	Littleton	168
Ayer	35	Acton	28	Maynard	22
Westford	9	Fitchburg	4	Pepperell	3
Shirley	1	Concord	39	Bedford	13
				Total	357

(c) Totals:

1. Employees included in survey returns:	657
2. Covered employment in all classifications:	1340
3. Covered manufacturing employment:	1009
4. % Survey returns to covered manufacturing employment:	65

City of Marlborough

(a) Local Employees' Place of Residence:

Marlboro	1562	Sudbury	6	Fitchburg	1
Hudson	253	Brockton	5	Lancaster	1
Worcester	38	Wayland	6	Millis	1
Milford	38	Shrewsbury	4	Millbury	1
Framingham	42	Spencer	6	Milton	1
Northboro	31	Stow	3	Wakefield	1
Southboro	25	Hopedale	3	Charlton	1
Holliston	14	Maynard	4	Misc. Mass.	4
Berlin	8	Clinton	3	Total Mass.	2087
Natick	10	Ashland	2	Grand Total	2037
Westboro	10	Hopkinton	3		

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Marlborough (continued)

(b) Local Residents' Place of Employment:

Waltham	51	Somerville	2	Marlborough	1562
Hudson	136	Worcester	41	Northboro	14
Clinton	7	Shrewsbury	3	Westboro	101
Ashland	97	Maynard	80	Southboro	62
Holliston	5	Acton	4	Stow	3
Leominster	1	Wayland	253	Framingham	196
Sudbury	50	Burlington	13	Natick	12
Watertown	4	Lynn	1	Total	2698

(c) Totals:

1. Employees included in survey returns: 2087

2. Covered employment in all classifications: 3530

3. Covered manufacturing employment: 2354

4. % Survey returns to covered manufacturing employment: 89

Town of Maynard

(a) Local Employees' Place of Residence:

Maynard	423	Ashland	13	Shrewsbury	4
Hudson	115	Northboro	11	Ayer	11
Marlboro	80	Lexington	10	Belmont	4
Lowell	73	Watertown	10	Brookline	4
Framingham	93	Clinton	9	Norwood	4
Stow	82	Bedford	9	Bolton	3
Sudbury	60	Andover	7	Boxboro	3
Acton	54	Billerica	7	Leominster	3
Concord	45	Dracut	9	W. Boylston	2
Westford	33	Groton	6	Misc. Mass.	150
Newton	30	Somerville	6	Total Mass.	1583
Worcester	19	Hopkinton	8	Misc. R. I.	8
Waltham	19	Holliston	7	Total R. I.	8
Natick	27	Wayland	27	Misc. N. H.	3
Boston	17	Woburn	5	Total N. H.	3
Littleton	22	Westboro	5	Total O. S.	11
Arlington	14	Berlin	5	Total	1594
Cambridge	13	Medford	5		
Chelmsford	13	Tewksbury	4		

(b) Local Residents' Place of Employment:

Waltham	40	Hudson	19	Marlboro	4
Grafton	3	Clinton	2	Maynard	423
Acton	65	Stow	7	Littleton	6
Fitchburg	3	Framingham	108	Concord	53
Wayland	26	Bedford	10	Watertown	6
Sudbury	8	Natick	4	Total	787

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Maynard (continued)

(c) Totals:

1. Employees included in survey returns: 1594
2. Covered employment in all classifications: 2261
3. Covered manufacturing employment: 1500
4. % Survey returns to covered manufacturing employment: 106

Town of Medway

(a) Local Employees' Place of Residence:

Medway	73	Framingham	2	Total Mass	120
Milford	10	Hopedale	2	Woonsocket	6
Franklin	10	Plainville	1	Misc. R. I.	0
Bellingham	9	Westwood	1	Total R. I	6
Millis	3	Wrentham	1	Total O. S.	6
Upton	3	Mansfield	1	Total	126
Holliston	3	Uxbridge	1		

(b) Local Residents' Place of Employment:

Medway	73	Hopedale	52	Bellingham	24
Millis	20	Medfield	10	Ashland	6
Milford	5	Franklin	5	Walpole	5
Holliston	4	Framingham	51	Total	277
Needham	19	Wellesley	3		

(c) Totals:

1. Employees included in survey returns: 126
2. Covered employment in all classifications: 540
3. Covered manufacturing employment: 282
4. % Survey returns to covered manufacturing employment: 45

Town of Mendon

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Hopedale	130	Holliston	4	Framingham	5
Milford	27	Westboro	2	Total	190
Uxbridge	12	Bellingham	2		
Ashland	6	Upton	2		

Mendon (continued)

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	146
3. Covered manufacturing employment:	29
4. % Survey returns to covered manufacturing employment.	0

Town of Milford

(a) Local Employees' Place of Residence:

Milford	419	Medway	5	Wellesley	1
Hopedale	63	Franklin	3	Misc. Mass.	40
Uxbridge	44	Natick	2	Total Mass.	708
Upton	33	Shrewsbury	2	Woonsocket	190
Bellingham	31	Blackstone	2	Misc. R. I.	3
Northbridge	27	Millis	1	Total R. I.	193
Mendon	27	Scituate	1	Total Out State	193
Millville	6	Northboro	1	Grand Total	901

(b) Local Residents' Place of Employment:

Milford	419	Natick	35	Northbridge	184
Ashland	138	Millis	70	Holliston	33
Medfield	26	Bellingham	23	Uxbridge	14
Medway	10	Franklin	9	Dighton	6
Walpole	4	Westboro	2	Marlboro	38
Worcester	10	Leicester	8	Millbury	2
Hopedale	1000	Shrewsbury	2	Framingham	292
Grafton	2	Wayland	32	Total	2359

(c) Totals:

1. Employees included in survey returns:	901
2. Covered employment in all classifications:	3920
3. Covered manufacturing employment:	2084
4. % Survey returns to covered manufacturing employment:	43

Town of Millis

(a) Local Employees' Place of Residence:

Millis	178	Quincy	14	Woonsocket	60
Milford	70	Lowell	12	Pawtucket & CF	8
Boston	23	Bellingham	10	Prov. & E. Prov.	9
Medway	20	Franklin	10	Misc. R. I.	0
Dedham	18	Worcester	6	Total R. I.	77
Attleboro	16	Misc. Mass.	10	Total Out State	77
Wellesley	16	Total Mass.	403	Total	480

Millis (continued)

(b) Local Residents' Place of Employment:

Millis	178	Norwood	8	Norfolk	1
Medfield	6	Medway	3	Natick	6
Framingham	23	Needham	8	Total	244
Newton	4	Walpole	7		

(c) Totals:

1. Employees included in survey returns:	480
2. Covered employment in all classifications:	899
3. Covered manufacturing employment:	728
4. % Survey returns to covered manufacturing employment:	66

Town of Millville

(a) Local Employees' Place of Residence:

Millville	16	Misc. Mass.	0	Prov. & E.Prov.	2
Blackstone	16	Total Mass.	42	Misc. R. I.	15
Uxbridge	3	Woonsocket	39	Total R. I.	58
Bellingham	7	Slatersville	2	Total Out State	58
				Grand Total	100

(b) Local Residents' Place of Employment:

Uxbridge	22	Millville	16	Douglas	8
Milford	6	Bellingham	2	Total	54

(c) Totals:

1. Employees included in survey returns:	100
2. Covered employment in all classifications:	206
3. Covered manufacturing employment:	126
4. % Survey returns to covered manufacturing employment:	79

Town of Natick

(a) Local Employees' Place of Residence:

Natick	314	Hopkinton	11	Westboro	4
Framingham	143	Lowell	8	Needham	4
Boston	60	Southboro	7	Shrewsbury	4
Milford	35	Newton	6	Watertown	4
Wayland	32	Hudson	5	Braintree	4
Ashland	24	Millis	6	Maynard	4
Wellesley	22	Sudbury	5	Sherborn	3
Holliston	22	Cambridge	5	Worcester	3
Marlboro	12	Franklin	4	Somerville	3

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Natick (continued)

				Woonsocket	3
Norwood	3	Randolph	2	Misc. R. I.	0
Weymouth	2	Medway	2	Total R. I.	3
Westford	2	Waltham	2	Total O. S.	3
Tewksbury	2	Misc. Mass.	45	Total	819
Stoughton	2	Total Mass.	816		

(b) Local Residents' Place of Employment:

Waltham	67	Boston	37	Marlboro	10
Ashland	36	Maynard	27	Westboro	6
Holliston	5	Norwood	5	Milford	2
Framingham	407	Natick	314	Wayland	107
Needham	64	Wellesley	53	Bedford	13
Watertown	12	Medford	7	Sudbury	4
Newton	66			Total	1292

(c) Totals:

1. Employees included in survey returns: 819

2. Covered employment in all classifications: 3561

3. Covered manufacturing employment: 1695

4. % Survey returns to covered manufacturing employment: 48

Town of Northborough

(a) Local Employees' Place of Residence:

Hudson	25	Berlin	1	Auburn	1
Northboro	14	Boylston	1	Misc. Mass.	0
Marlboro	14	Sudbury	1	Total Mass.	84
Worcester	10	Upton	1	Total	84
Shrewsbury	6	Waltham	1		
Westboro	5	Northbridge	1		
Bolton	2	Leicester	1		

(b) Local Residents' Place of Employment:

Worcester	195	Marlboro	25	Shrewsbury	17
Northboro	14	Hudson	5	Clinton	4
Grafton	3	Millbury	2	Westboro	73
Maynard	11	Ashland	6	Southboro	3
Brookfield	1	Framingham	15	Total	408
Wayland	22	Sudbury	12		

(c) Totals:

1. Employees included in survey returns: 84

2. Covered employment in all classifications: 766

Northborough (continued)

3. Covered manufacturing employment: 210

4. % Survey returns to covered manufacturing employment: 27

Town of Northbridge

(a) Local Employees' Place of Residence:

Northbridge	1590	Worcester	105	Woonsocket	1090
Uxbridge	408	Sutton	88	Misc. R. I.	0
Milford	184	Webster	64	Total R. I.	1090
Millbury	164	Misc. Mass.	122	Total O. S.	1090
Douglas	140	Total Mass.	2861	Total	3951

(b) Local Residents' Place of Employment:

Northbridge	1590	Uxbridge	45	Milford	27
Douglas	24	Westboro	13	Holliston	4
Worcester	79	Millbury	45	Grafton	39
Shrewsbury	20	Upton	2	Total	1973
Northboro	1	Framingham	84		

(c) Totals:

1. Employees included in survey returns: 3951

2. Covered employment in all classifications: 4644

3. Covered manufacturing employment: 4037

4. % Survey returns to covered manufacturing employment: 98

Town of Sherborn

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment:

Norwood	5	Walpole	3	Ashland	3
		Natick	3	Total	14

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 183

3. Covered manufacturing employment: 73

4. % Survey returns to covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYERS

Town of Shirley

(a) Local Employees' Place of Residence:

Shirley	285	Pepperell	6	Total Mass.	406
Ayer	38	Lunenburg	3	Nashua	11
Leominster	34	Acton	1	Total N. H.	11
Groton	15	Lancaster	1	Total O. S.	11
Fitchburg	12	Littleton	1	Total	417
Townsend	10	Misc. Mass.	0		

(b) Local Residents' Place of Employment:

Clinton	22	Shirley	285	Ayer	38
Fitchburg	20	Groton	12	Leominster	9
Pepperell	4	Acton	5	Total	395

(c) Totals:

1. Employees included in survey returns: 417
2. Covered employment in all classifications: 627
3. Covered manufacturing employment: 525
4. % Survey returns to covered manufacturing employment: 79

Town of Southborough

(a) Local Employees' Place of Residence:

Southboro	35	Worcester	4	Misc. Mass.	0
Marlboro	62	Northboro	3	Total Mass.	150
Hudson	36	Hopkinton	2	Total O. S.	0
Berlin	6	Framingham	2	Total	150

(b) Local Residents' Place of Employment:

Marlboro	19	Worcester	9	Ashland	47
Southboro	35	Westboro	23	Holliston	2
Framingham	43	Natick	7	Total	199
Wayland	14				

(c) Totals:

1. Employees included in survey returns: 150
2. Covered employment in all classifications: 463
3. Covered manufacturing employment: 204
4. % Survey returns to covered manufacturing employment: 74

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Stow

(a) Local Employees' Place of Residence:

Hudson	13	Worcester	3	Auburn	1
Watertown	8	Lowell	3	Westford	1
Maynard	7	Marlboro	3	Misc. Mass.	0
Waltham	5	Methuen	2	Total Mass.	64
Berlin	4	Bolton	1	Misc. N. H.	1
Lawrence	4	Acton	1	Total N. H.	1
Stow	3	Chelmsford	1	Total O. S.	1
Newton	3	Tyngsboro	1	Total	65

(b) Local Residents' Place of Employment:

Hudson	9	Marlboro	3	Maynard	82
Littleton	6	Acton	4	Total	110
Stow	3	Concord	3		

(c) Totals:

1. Employees included in survey returns: 65
2. Covered employment in all classifications: 148
3. Covered manufacturing employment: 78
4. % Survey returns to covered manufactured employment. 83

Town of Sudbury

(a) Local Employees' Place of Residence:

Sudbury	22	Waltham	3	Holliston	2
Marlboro	50	Ashland	3	Watertown	2
Hudson	17	Berlin	3	Wayland	2
Framingham	17	Westboro	3	Auburn	2
Northboro	12	Dedham	4	Wenham	2
Worcester	13	Hopkinton	2	Stow	2
Maynard	8	Acton	2	Misc. Mass.	55
Boston	9	Billerica	2	Total Mass.	255
Cambridge	6			Total O. S.	0
Natick	4	Weymouth	2	Total	255
Shrewsbury	4	Newton	2		

(b) Local Residents' Place of Employment:

Waltham	44	Cambridge	10	Marlborough	6
Northboro	1	Maynard	60	Ashland	6
Wayland	82	Sudbury	22	Watertown	5
Bedford	10	Natick	5	Total	258
Wellesley	4	Newton	3		

Sudbury (continued)

(c) Totals:

1. Employees included in survey returns:	255
2. Covered employment in all classifications:	1837
3. Covered manufacturing employment:	1441
4. % Survey returns to covered manufacturing employment.	18

Town of Upton

(a) Local Employees' Place of Residence:

Upton	41	Northbridge	2	Total Mass.	53
Grafton	4	Sturbridge	1	Total Out State	0
Uxbridge	3	Bellingham	1	Grand Total	53
Mendon	2	Misc. Mass.	0		

(b) Local Residents' Place of Employment:

Hopedale	125	Holliston	5	Worcester	25
Westboro	50	Webster	2	Grafton	5
Milford	33	Medway	3	Northboro	1
Ashland	12	Upton	41	Framingham	6
				Total	303

(c) Totals:

1. Employees included in survey returns.	53
2. Covered employment in all classifications:	843
3. Covered manufacturing employment:	720
4. % Survey returns to covered manufacturing employment:	7

Town of Uxbridge

(a) Local Employees' Place of Residence:

Uxbridge	662	Webster	5	Burrillville	94
Blackstone	69	Franklin	4	Misc. R. I.	39
Northbridge	45	Grafton	3	Total R. I.	248
Millville	22	Maynard	3	Putnam	16
Milford	14	Millbury	8	Misc. Conn.	1
Bellingham	12	Misc. Mass.	4	Total Conn.	17
Douglas	8	Total Mass.	871	Total Out State	265
Mendon	12	Woonsocket	115	Grand Total	1136

(b) Local Residents' Place of Employment:

Uxbridge	662	Dudley	300	Milford	44
Northbridge	404	Hopedale	66	Douglas	26

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Uxbridge (continued)

Bellingham	23	Worcester	14	Upton	2
Webster	4	Leicester	11	Total	1575
Franklin	3	Grafton	5		
Millville	3	Millbury	8		

(c) Totals:

1. Employees included in survey returns: 1196
2. Covered employment in all classifications: 1904
3. Covered manufacturing employment: 904
4. % Survey returns to covered manufacturing employment: 126

Town of Wayland

(a) Local Employees' Place of Residence:

Wayland	101	Ashland	25	Weston	14
Marlboro	253	Lowell	23	Southboro	14
Framingham	204	Medford	23	Auburn	13
Boston	177	Holliston	23	Fitchburg	12
Waltham	170	Belmont	23	Milton	12
Hudson	158	Northboro	22	Everett	12
Worcester	160	Brookline	18	Malden	12
Natick	107	Westboro	17	Lincoln	11
Newton	98	Shrewsbury	17	Concord	11
Sudbury	82	Hopkinton	17	Dedham	10
Watertown	71	Woburn	16	Fall River	10
Arlington	35	Needham	16	Misc. Mass.	500
Somerville	34	Lynn	15	Total Mass.	2625
Milford	32	Lexington	15	Total O. S.	0
Maynard	26	Wellesley	15	Total	2624

(b) Local Residents' Place of Employment:

Waltham	55	Marlboro	6	Maynard	27
Wayland	101	Framingham	101	Natick	32
Bedford	7	Watertown	4	Newton	3
				Total	336

(c) Totals:

1. Employees included in survey returns: 2624
2. Covered employment in all classifications: 3057
3. Covered manufacturing employment: 2432
4. % Survey returns to covered manufacturing employment: 108

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Westborough

(a) Local Employees' Place of Residence:

Westboro	358	Hudson	17	Newton	1
Marlboro	101	Shrewsbury	14	Berlin	1
Northboro	73	Northbridge	13	Sudbury	1
Hopkinton	67	Framingham	9	Millbury	1
Worcester	57	Ashland	6	Misc. Mass.	85
Grafton	56	Natick	6	Total Mass.	944
Upton	50	Mendon	2	Total O. S.	0
Southboro	23	Milford	2	Total	944

(b) Local Residents' Place of Employment:

Worcester	107	Westboro	358	Natick	4
Shrewsbury	20	Ashland	15	Sudbury	3
Marlboro	7	Maynard	5	Total	577
Northboro	5	Framingham	35		
Grafton	1	Wayland	17		

(c) Totals:

1. Employees included in survey returns: 944
2. Covered employment in all classifications: 1705
3. Covered manufacturing employment: 1249
4. % Survey returns to covered manufacturing employment: 76

MASS. MA 30.3: no 4

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MANUFACTURING COMMUTING SURVEY

[4.] MASSACHUSETTS BAY CENTRAL

Massachusetts Department of Commerce

150 CAUSEWAY STREET
BOSTON 14
LA 3-6640

DIVISION OF PLANNING, MAY, 1963
from a survey taken September, 1960

COMMUTING SURVEY OF COVERED MANUFACTURING EMPLOYEES
September, 1960

I. Introduction

An important indicator of the social and economic influence of a community or a region is the relationship between its labor force and the location of their employment. The commuting patterns of an employee reveal in general terms his income, his skills, and his overall orientation to the economy. From this, the task of judging the optimum location of highways, plants, commercial and other facilities dependent upon easy access, markets, and labor force is facilitated.

Thus, when the Division of Planning was preparing its Study of Areas for Regional Planning, published in December, 1960, it became evident that any attempt to determine the regional orientation of our three hundred fifty-one cities and towns could not omit this important factor. However, since detailed information of this type was not available, the Division surveyed over 2,500 manufacturers in September, 1960, to locate the place of residence of their employees. Almost 65% responded. The results were scored and included as one of nine determinants for regional orientation.

This booklet presents the "raw data" assembled in the commuting survey for one of ten areas in the Commonwealth. Several booklets were used, because a single presentation would be unwieldly and, in most instances, unnecessary. Practical considerations, as well as existing and proposed regional organizations and study efforts governed the choice of areas, but the cities and towns included in a particular area do not necessarily form a logical or effective planning region. Booklets are available for the following Areas: Berkshire, Pioneer Valley, Central Massachusetts, Merrimack Valley, Southeastern Massachusetts, the Coastal Plain, and Massachusetts Bay, West, North, South and Central.

II. Method

The survey was taken for maximum inclusion of covered manufacturing employees; i. e., those whose employers report to the Massachusetts Division of Employment Security and which fall into the manufacturing categories of the Standard Industrial Classification. Questionnaires were sent to enough manufacturers in a city or town to locate nearly all reported employees. In most instances, this meant a questionnaire to all employers of over twenty-five workers. None were sent to employers of under twenty-five. In large manufacturing centers, however, fifty was the minimum.

The questionnaires which were returned were recorded and totaled to show the place of residence of persons working in each city or town. Then an analysis was made to determine the converse--the place of employment of those residing in the various cities and towns. Many communities did not have a manufacturer large enough to survey; others did not respond. Thus there are no tabulations for many minor manufacturing towns.

For comparison and control, the number of employees included in the survey return for each city and town were measured against the number of employees reported to the Division of Employment Security from each community. Some employers did not send up-to-date information or may have listed certain "non-covered" employees, and, though a valuable indicator of survey coverage, the comparison may be somewhat inaccurate.

In this booklet, every municipality in the areas described on the cover is listed to show:

(a) The place of residence of those working in each city and town from which information was received.

(b) The place of employment of those residing in each city and town which was indicated in "place of residence" information.

(c) Comparisons and totals:

1. The employees included in the "place of residence" survey.

2. The number of employees reported to the Division of Employment Security as working in all (manufacturing and non-manufacturing) categories of industry, during September, 1960.

3. The number of employees reported to the Division of Employment Security as employed in manufacturing in September, 1960.

4. The percentage of survey returns to reported manufacturing employment.

MASSACHUSETTS BAY

CENTRAL

Acton
Arlington
Bedford
Belmont
Boston
Brookline
Burlington
Cambridge
Canton
Carlisle
Chelsea
Concord
Dedham
Dover
Everett
Foxborough
Lexington
Lincoln
Malden
Medfield
Medford
Melrose
Milton
Needham
Newton
Norfolk
North Reading
Norwood
Plainville
Randolph
Reading
Revere
Sharon
Somerville
Stoneham
Wakefield
Waltham
Walpole
Watertown
Wellesley
Weston
Westwood
Wilmington
Winchester
Winthrop
Woburn
Wrentham

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Acton

(a) Local Employees' Place of Residence:

Acton	64	Clinton	5	Boston	2
Lowell	153	Harvard	5	Pepperell	2
Westford	115	Shirley	5	Lunenburg	2
Maynard	65	Billerica	4	Fitchburg	1
Chelmsford	42	Tyngsboro	4	Misc. Mass.	87
Littleton	28	Groton	4	Total Mass.	658
Hudson	21	Marlboro	4	Misc. N. H.	3
Waltham	11	Leominster	4	Total N. H.	3
Dracut	8	Stow	4	Misc. O. S.	1
Concord	6	Ayer	3	Total Out State	4
Cambridge	6	Tewksbury	3	Grand Total	662

(b) Local Residents' Place of Employment:

Acton	64	Waltham	21	Lynn	2
Concord	56	Littleton	12	Pepperell	1
Maynard	54	Watertown	5	Shirley	1
Cambridge	32	Hudson	3	Total	282
Bedford	28	Newton	3		

(c) Totals:

1. Employees included in survey returns: 662

2. Covered employment in all classifications: 2,178

3. Covered manufacturing employment: 1,623

4. % Survey returns to covered manufacturing employment: 41%

Town of Arlington

(a) Local Employees' Place of Residence:

Arlington	67	Reading	5	Tewksbury	2
Somerville	19	Belmont	5	Woburn	3
Lexington	15	Winchester	7	Newton	2
Cambridge	11	Lynn	3	Misc. Mass.	15
Medford	9	Melrose	3	Total Mass.	200
Waltham	6	Wilmington	3	Misc. N. H.	1
Malden	6	Billerica	3	Total N. H.	1
Burlington	6	Acton	2	Total Out State	1
Boston	6	Chelmsford	2	Grand Total	201

(b) Local Resident' Place of Employment:

Arlington	67	Waltham	164	Burlington	52
Cambridge	745	Somerville	91	Medford	37
Watertown	288	Concord	63	Wayland	35
Boston	228	Bedford	61	Everett	25

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Arlington (Continued)

(b)

Newton	24	Wakefield	9	Lexington	3
Quincy	22	Winchester	9	Reading	3
Malden	17	Lowell	6	Melrose	2
Maynard	14	Chelsea	5	Total	1,985
Needham	9	Brookline	4		

(c) Totals:

1. Employees included in survey returns: 201
2. Covered employment in all classifications: 3,563
3. Covered manufacturing employment: 348
4. % Survey returns to covered manufacturing employment: 58%

Town of Bedford

(a) Local Employees' Place of Residence:

Bedford	87	Chelmsford	20	Westford	12
Boston	103	Reading	20	Needham	11
Lexington	102	Winchester	19	Maynard	10
Arlington	61	Tewksbury	16	Sudbury	10
Cambridge	61	Belmont	16	Quincy	8
Billerica	45	Stoneham	16	Wellesley	8
Waltham	43	Brookline	15	Wayland	7
Concord	38	Wakefield	15	Canton	5
Lowell	38	Malden	13	Misc. Mass.	177
Burlington	34	Natick	13	Total Mass.	1,265
Woburn	34	Littleton	13	Misc. R. I.	2
Newton	29	Lawrence	13	Total R. I.	2
Acton	28	Lynn	13	Misc. N. H.	10
Medford	28	Melrose	13	Total N. H.	10
Somerville	25	Framingham	12	Total Out State	12
Watertown	22	Lincoln	12	Grand Total	1,277

(b) Local Residents' Place of Employment:

Bedford	87	Maynard	9	Concord	3
Waltham	62	Melrose	9	Somerville	2
Cambridge	19	Burlington	4	Total	205
Lexington	10				

(c) Totals:

1. Employees included in survey returns: 1,277
2. Covered employment in all classifications: 3,344
3. Covered manufacturing employment 2,547
4. % Survey returns to covered manufacturing employment: 50%

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Belmont

(a) Local Employees' Place of Residence:

Belmont	4	Brockton	1	Lynn	1
Cambridge	6	Wayland	1	Misc. Mass.	0
Waltham	5	Everett	1	Total Mass.	28
Boston	4	Norwood	1	Total Out State	0
Weston	2	Somerville	1	Grand Total	28
Arlington	1				

(b) Local Residents' Place of Employment:

Belmont	4	Needham	18	Medford	5
Cambridge	294	Newton	18	Chelsea	4
Watertown	201	Bedford	16	Concord	3
Boston	83	Quincy	14	Somerville	4
Waltham	83	Arlington	5	Everett	2
Wayland	23	Malden	5	Total	782

(c) Totals:

1. Employees included in survey returns:	28
2. Covered employment in all classifications:	2,649
3. Covered manufacturing employment:	210
4. % Survey returns to covered manufacturing employment:	13%

City of Boston

(a) Local Employees' Place of Residence:

Boston	10,014	Stoughton	159	Needham	31
Quincy	589	Brookline	146	Westwood	31
Cambridge	540	Lynn	141	Wakefield	30
Somerville	506	Norwood	123	Framingham	27
Chelsea	390	Watertown	104	Peabody	26
Revere	385	Winthrop	91	Lexington	25
Medford	325	Belmont	83	Wilmington	23
Dedham	314	Melrose	61	Winchester	22
Malden	255	Easton	56	Hingham	20
Everett	253	Canton	54	Misc. Mass.	1,957
Newton	249	Salem	51	Total Mass.	18,627
Milton	236	Stoneham	47	Misc. R. I.	15
Arlington	228	Waltham	45	Total R. I.	15
Randolph	219	Woburn	42	Misc. N. H.	12
Brockton	247	Reading	38	Total N. H.	12
Braintree	190	Natick	37	Misc. O. S.	12
Weymouth	180	Wellesley	37	Total Out State	39
				Grand Total	18,666

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Boston (Continued)

(b) Local Residents' Place of Employment:

Boston	10,014	Framingham	86	Wellesley	9
Lynn	2,366	Melrose	62	Dighton	8
Cambridge	2,023	Hudson	60	Stoughton	8
Quincy	1,883	Natick	60	Billerica	8
Watertown	1,534	Milton	41	Newburyport	7
Waltham	1,215	Wakefield	38	Danvers	7
Newton	930	Wrentham	32	Mansfield	5
Dedham	622	Burlington	30	Hanover	5
Chelsea	382	Concord	28	Weymouth	5
Norwood	370	Peabody	27	Belmont	4
Braintree	359	Millis	23	Arlington	6
Needham	227	Salem	23	Hingham	4
Somerville	180	Maynard	17	Reading	4
Wayland	177	Brockton	15	Stoneham	4
Everett	276	Littleton	10	Beverly	4
Medford	158	Walpole	10	Ashland	3
Malden	137	Canton	12	Holbrook	3
Brookline	113	Revere	10	Winthrop	3
Bedford	103	Sudbury	9	Swampscott	3
Woburn	88	Lexington	9	Medfield	2
				E. Bridgewater	2
				Rockland	2
				Saugus	2
				Easton	1
				Total	22,938

(c) Totals:

1. Employees included in survey returns:	18,666
2. Covered employment in all classifications:	372,856
3. Covered manufacturing employment:	87,242
4. % Survey returns to covered manufacturing employment:	21%

Town of Brookline

(a) Local Employees' Place of Residence:

Brookline	20	Malden	4	Brockton	1
Boston	113	Cambridge	2	Hanover	1
Newton	8	Bridgewater	2	Quincy	1
Revere	10	Chelsea	2	Weymouth	1
Somerville	7	Braintree	2	Misc. Mass.	7
Everett	6	Framingham	1	Total Mass.	199
Medford	5	Belmont	1	Total Out State	0
Arlington	4	Lynnfield	1	Grand Total	199

Brookline (Continued)

(b) Local Residents' Place of Employment:

Brookline	20	Bedford	15	Medford	4
Boston	146	Needham	9	Hudson	3
Cambridge	69	Somerville	9	Concord	3
Quincy	51	Dedham	7	Wellesley	3
Waltham	45	Peabody	6	Randolph	1
Newton	23	Watertown	6	Total	445
Wayland	18	Norwood	5		

(c) Totals:

1. Employees included in survey returns:	199
2. Covered employment in all classifications:	10,486
3. Covered manufacturing employment:	460
4. % Survey returns to covered manufacturing employment:	43%

Town of Burlington

(a) Local Employees' Place of Residence:

Burlington	115	Tewksbury	30	Framingham	18
Lowell	238	Cambridge	25	Bedford	4
Woburn	121	Boston	30	Saugus	4
Billerica	112	Reading	20	Newton	7
Arlington	52	Malden	18	Marlboro	13
Waltham	69	Medford	19	Watertown	6
Dracut	42	Stoneham	17	Misc. Mass.	123
Wilmington	34	Concord	14	Total Mass.	1,317
Somerville	39	Chelmsford	10	Misc. N. H.	4
Lexington	39	Wakefield	7	Total N. H.	4
Winchester	32	Melrose	9	Total Out State	4
				Grand Total	1,321

(b) Local Residents' Place of Employment:

Burlington	115	Salem	6	Reading	5
Waltham	45	Woburn	88	Concord	4
Cambridge	13	Bedford	34	Lexington	4
Lowell	4	Malden	14	Everett	4
Wilmington	2	Winchester	13	Chelsea	3
Billerica	2	Arlington	6	Newton	8
Chelmsford	2	Medford	5	Total	387
Wakefield	5	Watertown	5		

(c) Totals:

1. Employees included in survey returns:	1,321

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Burlington (Continued)

2. Covered employment in all classifications: 3,897

3. Covered manufacturing employment: 2,898

4. % Survey returns to covered manufacturing employment: 46%

City of Cambridge

(a) Local Employees' Place of Residence:

Cambridge	3,456	Quincy	64	Norwood	15
Boston	2,023	Waltham	47	Randolph	11
Somerville	1,459	Woburn	44	Reading	11
Arlington	745	Wellesley	36	Stoneham	16
Lexington	357	Wilmington	32	Stoughton	12
Medford	380	Franklin	30	Sudbury	10
Belmont	294	Needham	23	Weston	13
Everett	98	Concord	29	Weymouth	17
Watertown	187	Billerica	20	Misc. Mass.	2,235
Malden	120	Acton	32	Total Mass.	12,426
Melrose	88	Bedford	19	Misc. R. I.	2
Winchester	94	Braintree	15	Total R. I.	2
Newton	98	Burlington	13	Misc. N. H.	8
Revere	67	Dedham	15	Total N. H.	8
Brookline	69	Lowell	16	Misc. O. S.	7
Lynn	66	Lincoln	10	Total Out State	17
Chelsea	46	Milton	12	Grand Total	12,443

(b) Local Residents' Place of Employment:

Cambridge	3,456	Dedham	33	Chelsea	10
Boston	540	Braintree	13	Framingham	9
Waltham	219	Wakefield	4	Belmont	6
Somerville	151	Watertown	970	Sudbury	6
Wilmington	21	Concord	65	Lexington	5
Billerica	3	Bedford	61	Winchester	5
Lowell	6	Medford	37	Natick	5
Hudson	7	Malden	32	Wellesley	5
Maynard	13	Burlington	25	Reading	3
Wrentham	6	Everett	20	Woburn	2
Acton	6	Arlington	11	Brookline	2
Quincy	52	Needham	10	Newton	201
				Total	6,020

(c) Totals:

1. Employees included in survey returns: 12,443

2. Covered employment in all classifications: 61,631

3. Covered manufacturing employment: 25,509

4. % Survey returns to covered manufacturing employment: 49%

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Canton

(a) Local Employees' Place of Residence:

Canton	174	Braintree	2	Medford	1
Stoughton	76	Concord	2	Abington	1
Brockton	33	Winchester	2	Lynnfield	1
Sharon	29	Needham	2	Arlington	1
Norwood	28	Franklin	2	Hanover	1
Fall River	14	Quincy	2	Attleboro	1
Mansfield	11	Randolph	2	Berkley	1
Easton	9	Dedham	4	E. Bridgewater	1
Boston	12	Middleboro	2	Weymouth	1
Foxboro	6	Avon	2	Walpole	18
Woburn	4	Sherborn	1	Misc. Mass.	30
Framingham	4	Waltham	1	Total Mass.	448
Plymouth	3	Wellesley	1	Misc. R. I.	2
Bridgewater	3	Natick	1	Total R. I.	2
Westwood	3	Wrentham	2	Total Out State	2
Duxbury	3	Newton	1	Grand Total	500

(b) Local Residents' Place of Employment:

Canton	174	Stoughton	33	Bedford	5
Boston	54	Brockton	5	Concord	4
Norwood	74	Quincy	79	Watertown	4
Walpole	28	Dedham	8	Newton	6
Dighton	4	Needham	19	Total	497

(c) Totals:

1. Employees included in survey returns:	500
2. Covered employment in all classifications:	3,114
3. Covered manufacturing employment:	1,804
4. % Survey returns to covered manufacturing employment:	28%

Town of Carlisle

(a) Local Employees' Place of Residence: Too Few For Survey

(b) Local Residents' Place of Employment:

Lynn	1	Total	1

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	110
3. Covered manufacturing employment:	19

Carlisle (Continued)

4. % Survey returns to covered manufacturing employment: 0

City of Chelsea

(a) Local Employees' Place of Residence:

Chelsea	943	Stoneham	9	Salem	2
Boston	382	Wakefield	8	Beverly	1
Revere	239	Lynnfield	7	Essex	1
Everett	151	Swampscott	6	Middleton	1
Lynn	58	Arlington	5	Nahant	1
Malden	65	Lexington	5	N. Andover	1
Winthrop	30	Winchester	5	Peabody	12
Somerville	29	Belmont	4	Chelmsford	1
Melrose	23	Reading	4	N. Reading	2
Saugus	13	Burlington	3	Sudbury	2
Medford	13	Waltham	4	Weston	1
Newton	12	Lawrence	2	Misc. Mass.	93
Cambridge	10	Haverhill	3	Total Mass.	2,163
Marblehead	9	Gloucester	3	Total Out State	0
				Grand Total	2,163

(b) Local Residents' Place of Employment:

Chelsea	943	Wakefield	12	Malden	25
Quincy	39	Lynn	22	Melrose	5
Boston	390	Salem	7	Watertown	4
Cambridge	46	Beverly	2	Brookline	2
Somerville	5	Everett	93	Revere	8
Wilmington	28	Medford	17	Newton	3
				Total	1,648

(c) Totals:

1. Employees included in survey returns: 2,163

2. Covered employment in all classifications: 8,122

3. Covered manufacturing employment: 4,103

4. % Survey returns to covered manufacturing employment: 53%

Town of Concord

(a) Local Employees' Place of Residence:

Concord	106	Somerville	34	Andover	5
Cambridge	65	Boston	28	Medford	5
Arlington	63	Chelmsford	22	Newton	5
Lexington	61	Harvard	17	Canton	4
Acton	56	Waltham	7	Burlington	4
Maynard	53	Watertown	6	Stow	3
Littleton	39	Woburn	5	Needham	3

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Concord (Continued)

(a)

Stoneham	3	Framingham	3	Weymouth	2
Brookline	3	Lincoln	2	Marlboro	1
Belmont	3	Wayland	2	Holbrook	1
Malden	3	Easton	2	Natick	1
Tewksbury	3	Saugus	2	Misc. Mass.	22
Reading	3	Quincy	2	Total Mass.	654
Bedford	3	Lowell	2	Total Out State	0
				Grand Total	654

(b) Local Residents' Place of Employment:

Concord	106	Littleton	5	Everett	3
Waltham	37	Bedford	38	Newton	4
Cambridge	29	Burlington	14	Lynn	1
Maynard	45	Wayland	11	Total	302
Acton	6	Watertown	4		

(c) Totals:

1. Employees included in survey returns:	654
2. Covered employment in all classifications:	3,100
3. Covered manufacturing employment:	1,230
4. % Survey returns to covered manufacturing employment:	53%

Town of Dedham

(a) Local Employees' Place of Residence:

Dedham	235	Foxboro	6	Stoughton	2
Boston	622	Medford	5	Easton	2
Norwood	130	Westwood	9	Lexington	2
Somerville	81	Randolph	5	Malden	2
Quincy	70	Waltham	4	Plainville	2
Cambridge	33	Abington	4	Arlington	2
Needham	31	Medford	4	Revere	2
Weymouth	14	Everett	4	Misc. Mass.	63
Walpole	13	Sharon	4	Total Mass.	1,441
Braintree	13	Worcester	3	Misc. R. I.	1
Brockton	11	Dover	3	Total R. I.	1
Newton	11	Littleton	3	Misc. N. H.	1
Canton	8	Wakefield	3	Total N. H.	1
Brookline	7	Wellesley	3	Misc. Me.	1
Stoughton	7	Bridgewater	2	Total Me.	1
Milton	7	Natick	2	Total Out State	3
Hingham	5	Melrose	2	Grand Total	1,444

(b) Local Residents' Place of Employment:

Dedham	235	Cambridge	15	Walpole	82
Boston	314	Norwood	116	Millis	18

Dedham (Continued)

(b)

Wrentham	3	Quincy	63	Watertown	6
Brockton	29	Braintree	14	Wellesley	5
Avon	1	Canton	4	Newton	18
Stoughton	2	Wayland	10	Total	935

(c) Totals:

1. Employees included in survey returns: 1,444
2. Covered employment in all classifications: 6,173
3. Covered manufacturing employment: 2,745
4. % Survey returns to covered manufacturing employment: 53%

Town of Dover

(a) Local Employees' Place of Residence: Too Few For Survey

(b) Local Residents' Place of Employment:

Norwood	4	Walpole	4	Needham	23
				Total	31

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 158
3. Covered manufacturing employment: 44
4. % Survey returns to covered manufacturing employment: 0

City of Everett

(a) Local Employees' Place of Residence:

Everett	968	Peabody	26	Swampscott	9
Malden	308	Cambridge	20	Andover	6
Boston	276	Arlington	25	Nahant	6
Woburn	156	Danvers	16	Winthrop	5
Somerville	114	Stoneham	18	Waltham	6
Medford	110	Salem	13	Watertown	5
Revere	106	Winchester	13	Lowell	8
Lynn	112	Lexington	13	Billerica	6
Melrose	87	Lynnfield	11	Burlington	4
Saugus	76	Newton	10	Rowley	4
Chelsea	93	N. Reading	10	Marblehead	3
Reading	71	Wilmington	11	West Newbury	3
Wakefield	54	Beverly	9	Tewksbury	3

Everett (Continued)

(a)

Concord	3	Misc. Mass.	150	Total N. H.	2
Amesbury	6	Total Mass.	2,960	Misc. O. S.	8
Lawrence	9	Misc. N. H.	2	Total Out State	10
				Grand Total	2,970

(b) Local Residents' Place of Employment:

Everett	968	Lynn	22	Revere	12
Boston	253	Saugus	8	Wayland	12
Cambridge	98	Peabody	6	Watertown	10
Somerville	60	Salem	4	Brookline	6
Waltham	16	Malden	209	Winthrop	2
Littleton	5	Chelsea	151	Belmont	1
Dedham	4	Medford	68	Newton	72
Quincy	31	Melrose	30	Total	2,091
Wakefield	26	Woburn	17		

(c) Totals:

1. Employees included in survey returns: 2,970
2. Covered employment in all classifications: 11,570
3. Covered manufacturing employment: 6,655
4. % Survey returns to covered manufacturing employment: 45%

Town of Foxborough

(a) Local Employees' Place of Residence:

Foxboro	13	Total Mass.	22
Mansfield	3	Pawtucket & CF	2
Taunton	3	Total R. I.	2
Attleboro	2	Total Out State	2
Weymouth	1	Grand Total	24
Misc. Mass.	0		

(b) Local Residents' Place of Employment:

Foxborough	13	Dighton	5	Dedham	6
Walpole	110	N. Attleboro	3	Quincy	14
Mansfield	84	Plainville	2	Canton	6
Norwood	53	Norton	2	Needham	3
Attleboro	12	Stoughton	2	Total	326
Wrentham	11				

(c) Totals:

1. Employees included in survey returns: 24
2. Covered employment in all classifications: 3,220

Foxborough (Continued)

3. Covered manufacturing employment: 2,613

4. % Survey returns to covered manufacturing employment: 9%

Town of Lexington

(a) Local Employees' Place of Residence:

Lexington	29	Billerica	3	Misc. Mass.	10
Bedford	10	Clinton	3	Total Mass.	102
Boston	9	Woburn	3	Total Out State	0
Cambridge	5	Lowell	2	Grand Total	102
Waltham	5	Melrose	2		
Somerville	4	Malden	2		
Burlington	4	Medford	2		
Newton	4	Watertown	2		
Arlington	3				

(b) Local Residents' Place of Employment:

Lexington	29	Maynard	10	Watertown	25
Cambridge	357	Wakefield	4	Medford	6
Waltham	97	Bedford	102	Winchester	5
Boston	25	Concord	61	Chelsea	5
Somerville	15	Burlington	39	Woburn	2
Lowell	11	Wayland	15	Arlington	15
Chelmsford	3	Everett	13	Newton	26
				Total	865

(c) Totals:

1. Employees included in survey returns: 102

2. Covered employment in all classifications: 2,866

3. Covered manufacturing employment: 225

4. % Survey returns to covered manufacturing employment: 45%

Town of Lincoln

(a) Local Employees' Place of Residence: Too Few For Survey

(b) Local Residents' Place of Employment:

Cambridge	10	Bedford	12	Wayland	11
				Total	33

(c) Totals:

1. Employees included in survey returns: 0

Lincoln (Continued)

2. Covered employment in all classifications: 266

3. Covered manufacturing employment: 1

4. % Survey returns to covered manufacturing employment: 0

City of Malden

(a) Local Employees' Place of Residence:

Malden	1,061	Burlington	14	Groveland	1
Everett	209	Wilmington	14	Georgetown	1
Boston	137	Winchester	16	Boxford	1
Medford	207	Lynnfield	18	Beverly	1
Melrose	113	N. Reading	6	Waltham	1
Somerville	70	Watertown	9	Lexington	1
Wakefield	63	Belmont	5	Dracut	1
Revere	47	Newburyport	5	Chelmsford	1
Saugus	49	Winthrop	3	Peabody	1
Cambridge	32	Lowell	3	Salem	1
Reading	31	Newton	4	Misc. Mass.	79
Stoneham	33	Tewksbury	2	Total Mass.	2,375
Lynn	29	Danvers	3	Misc. O. S.	1
Chelsea	25	Middleton	4	Total Out State	1
Woburn	23	Rockport	1	Grand Total	2,376
Arlington	17	Ipswich	1		

(b) Local Residents' Place of Employment:

Malden	1,061	Salem	17	Burlington	18
Boston	255	Lynn	10	Winchester	9
Cambridge	120	Saugus	10	Stoneham	11
Somerville	73	Peabody	5	Arlington	6
Waltham	24	Everett	308	Brookline	4
Wilmington	9	Medford	228	Lexington	2
Lowell	3	Melrose	67	Concord	3
Westford	9	Chelsea	65	Revere	3
Littleton	5	Woburn	23	Newton	42
Quincy	33	Watertown	10	Total	2,752
Milton	2	Wayland	12		
Wakefield	292	Bedford	13		

(c) Totals:

1. Employees included in survey returns: 2,376

2. Covered employment in all classifications: 13,000

3. Covered manufacturing employment: 4,991

4. % Survey returns to covered manufacturing employment: 48%

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Medfield

(a) Local Employees' Place of Residence:

Medfield	33	Bellingham	2	Braintree	1
Milford	26	Framingham	2	Misc. Mass.	0
Walpole	13	Westwood	2	Total Mass.	115
Medway	10	Wrentham	2	Prov&E. Prov.	2
Millis	6	Revere	1	Misc. R. I.	1
Norfolk	5	Sherborn	1	Total R. I.	3
Norwood	3	Franklin	1	Total Out State	3
Hopedale	3	N. Attleboro	1	Grand Total	118
Boston	2	Dedham	1		

(b) Local Residents' Place of Employment:

Medfield	33	Ashland	3	Watertown	4
Walpole	30	Dedham	4	Total	107
Norwood	20	Needham	13		

(c) Totals:

1. Employees included in survey returns: 118

2. Covered employment in all classifications: 343

3. Covered manufacturing employment: 123

4. % Survey returns to covered manufacturing employment: 96%

City of Medford

(a) Local Employees' Place of Residence:

Medford	390	Wakefield	12	Danvers	2
Malden	228	Saugus	12	Methuen	1
Boston	158	Reading	9	Quincy	1
Somerville	157	Tewksbury	8	Haverhill	1
Everett	68	Natick	7	Winthrop	1
Revere	41	Stoneham	7	Norwood	1
Cambridge	37	Lexington	6	Lynn	4
Arlington	37	Belmont	5	Andover	2
Woburn	29	Burlington	5	Misc. Mass.	28
Waltham	26	Brookline	4	Total Mass.	1,379
Winchester	21	Newton	4	Misc. N. H.	2
Chelsea	17	Wilmington	3	Total N. H.	2
Melrose	15	Lynnfield	2	Total Out State	2
Lawrence	13	N. Reading	2	Grand Total	1,381
Watertown	13	Peabody	2		

(b) Local Residents' Place of Employment:

Medford	390	Boston	325	Somerville	69
Cambridge	380	Waltham	89	Methuen	4

Medford (Continued)

(b)

Lowell	10	Wakefield	27	Watertown	33
Maynard	5	Lynn	10	Wayland	23
Westford	5	Salem	4	Burlington	19
Gloucester	2	Saugus	2	Chelsea	13
Quincy	32	Swampscott	1	Malden	207
Braintree	13	Everett	110	Total	1,901
Dedham	5	Bedford	28		

(c) Totals:

1. Employees included in survey returns:	1,381
2. Covered employment in all classifications:	9,191
3. Covered manufacturing employment:	2,389
4. % Survey returns to covered manufacturing employment:	58%

City of Melrose

(a) Local Employees' Place of Residence:

Melrose	85	Wellesley	4	Newton	1
Malden	67	Reading	4	Chelmsford	1
Boston	62	Peabody	2	Ipswich	1
Everett	30	Arlington	2	Middleton	1
Wakefield	7	Andover	2	Marblehead	1
Stoneham	6	Lynn	1	Topsfield	1
Saugus	6	Watertown	1	Misc. Mass.	0
Revere	6	Cambridge	1	Total Mass.	311
Medford	6	Lynnfield	1	Misc. R. I.	2
Chelsea	5	Norwood	1	Total R. I.	2
Quincy	5	Waltham	1	Total Out State	2
				Grand Total	313

(b) Local Residents' Place of Employment:

Cambridge	88	Peabody	6	Burlington	9
Melrose	85	Lynn	6	Watertown	6
Boston	61	Swampscott	1	Winchester	5
Somerville	7	Saugus	3	Arlington	3
Lowell	4	Malden	113	Lexington	2
Westford	7	Everett	87	Stoneham	8
Littleton	6	Medford	15	Woburn	14
Quincy	12	Bedford	13	Newton	3
Wakefield	170	Reading	10	Total	783
Salem	16	Chelsea	23		

(c) Totals:

1. Employees included in survey returns:	313

Melrose (Continued)

2. Covered employment in all classifications: 4,830

3. Covered manufacturing employment: 2,918

4. % Survey returns to covered manufacturing employment: 11%

Town of Milton

(a) Local Employees' Place of Residence:

Milton	74	Brockton	9	Malden	2
Boston	41	Hanover	7	Wareham	1
Randolph	38	Holbrook	7	E. Bridgewater	1
Quincy	24	Braintree	6	Misc. Mass.	12
Abington	15	Norwood	4	Total Mass.	259
Weymouth	16	Avon	2	Total Out State	0
				Grand Total	259

(b) Local Residents' Place of Employment:

Milton	74	Taunton	2	Dedham	7
Boston	236	Brockton	3	Braintree	3
Cambridge	12	Whitman	3	Rockland	2
Somerville	3	Easton	1	Wayland	12
Norwood	50	Holbrook	1	Needham	7
Wrentham	3	Quincy	184	Total	603

(c) Totals:

1. Employees included in survey returns: 259

2. Covered employment in all classifications: 1,455

3. Covered manufacturing employment: 242

4. % Survey returns to covered manufacturing employment: 107%

Town of Needham

(a) Local Employees' Place of Residence:

Needham	452	Watertown	29	Arlington	9
Boston	227	Belmont	18	Milton	7
Newton	200	Medfield	13	Weymouth	6
Natick	64	Somerville	12	Ashland	6
Wellesley	62	Medford	12	Stoughton	6
Norwood	60	Brockton	13	Holliston	6
Westwood	53	Walpole	9	Melrose	4
Waltham	40	Brookline	9	Hopkinton	3
Dover	23	Cambridge	10	Weston	3
Framingham	20	Lawrence	8	Foxboro	3
Canton	19	Millis	8	Milford	2

Needham (Continued)

(a)

Holbrook	2	Plainville	1	Total Mass.	1,779
Burlington	2	Mansfield	1	Misc. R. I.	3
Wayland	2	Marblehead	1	Total R. I.	3
Sherborn	1	Hull	1	Misc. N. H.	1
Sudbury	1	Dedham	137	Total N. H.	1
N. Attleboro	1	Medway	19	Total Out State	4
Concord	1	Misc. Mass.	197	Grand Total	1,783

(b) Local Residents' Place of Employment:

Needham	452	Walpole	3	Bedford	11
Boston	31	Dedham	31	Watertown	8
Waltham	26	Quincy	5	Wellesley	9
Norwood	12	Canton	2	Natick	4
Cambridge	23	Wayland	16	Concord	3
Ashland	7	Framingham	15	Newton	88
				Total	746

(c) Totals:

1. Employees included in survey returns: 1,783
2. Covered employment in all classifications: 8,177
3. Covered manufacturing employment: 4,042
4. % Survey returns to covered manufacturing employment: 44%

City of Newton

(a) Local Employees' Place of Residence:

Newton	510	Westwood	20	Revere	4
Boston	939	Dedham	18	Millis	4
Waltham	377	Belmont	18	Weymouth	3
Watertown	274	Chelmsford	11	Chelsea	3
Cambridge	201	Tewksbury	13	Acton	3
Somerville	176	Peabody	11	Melrose	3
Needham	88	Burlington	8	Sudbury	3
Everett	72	Billerica	7	Wayland	3
Natick	66	Weston	7	Misc. Mass.	181
Framingham	46	Braintree	6	Total Mass.	3,272
Malden	42	Canton	6	Misc. R. I.	2
Hudson	27	Winchester	6	Total R. I.	2
Lexington	26	Wellesley	5	Misc. N. H.	2
Arlington	24	Holliston	5	Total N. H	2
Medford	24	Ashland	5	Total Out State	4
Brookline	23	Concord	4	Grand Total	3,276

(b) Local Residents' Place of Employment:

Newton	510	Waltham	401	Boston	249

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Newton (Continued)

(b)

Cambridge	98	Dedham	11	Everett	10
Somerville	2	Hingham	3	Burlington	7
Lowell	5	Wakefield	8	Lexington	4
Maynard	30	Wayland	98	Natick	6
Norwood	17	Watertown	83	Brookline	8
Wrentham	4	Framingham	66	Medford	4
Taunton	4	Wellesley	50	Malden	4
Ashland	3	Bedford	29	Woburn	2
Stow	3	Needham	200	Concord	5
Quincy	44	Chelsea	12	Total	1,980

(c) Totals:

1. Employees included in survey returns: 3,276
2. Covered employment in all classifications: 22,421
3. Covered manufacturing employment: 10,728
4. % Survey returns to covered manufacturing employment: 31%

Town of Norfolk

(a) Local Employees' Place of Residence:

Norfolk	6	Misc. Mass.	0	Total R. I.	2
Franklin	11	Total Mass.	18	Total Out State	2
Millis	1	Woonsocket	2	Grand Total	20

(b) Local Residents' Place of Employment:

Norfolk	6	Medfield	5	Holliston	2
Walpole	89	Wrentham	5	Total	119
Norwood	10	Franklin	2		

(c) Totals:

1. Employees included in survey returns: 20
2. Covered employment in all classifications: 145
3. Covered manufacturing employment: 99
4. % Survey returns to covered manufacturing employment: 20%

Town of North Reading

(a) Local Employees' Place of Residence: Too Few For Survey

(b) Local Residents' Place of Employment:

Wilmington	68	Lawrence	6	Wakefield	36

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

North Reading (Continued)

(b)

Middleton	12	Reading	21	Medford	2
Beverly	2	Malden	6	Total	167
Everett	10	Burlington	4		

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	633
3. Covered manufacturing employment:	62
4. % Survey returns to covered manufacturing employment:	0

Town of Norwood

(a) Local Employees' Place of Residence:

Norwood	987	Medfield	20	Hingham	4
Walpole	282	Easton	17	Holbrook	4
Boston	370	Newton	17	New Bedford	4
Dedham	116	Mansfield	14	Millville	3
Westwood	75	Plainville	11	Milford	3
Canton	74	Norfolk	10	Avon	3
Stoughton	98	Needham	12	Braintree	6
Foxboro	53	Bridgewater	10	Sherborn	5
Milton	50	Millis	8	Misc. Mass.	154
Weymouth	55	Bellingham	7	Total Mass.	2,743
Quincy	48	Wellesley	6	Misc. R. I.	63
Wrentham	33	Waltham	5	Total R. I.	63
Attleboro	33	Natick	5	Misc. O. S.	3
Brockton	36	Framingham	5	Total Out State	66
Randolph	32	Brookline	5	Grand Total	2,809
Sharon	28	Abington	5		
Franklin	26	Dover	4		

(b) Local Residents' Place of Employment:

Norwood	987	Bellingham	3	Canton	2
Boston	123	Medfield	3	Needham	60
Waltham	19	Stoughton	4	Framingham	10
Cambridge	15	Brockton	3	Wellesley	7
Walpole	1,021	Dedham	130	Natick	3
Wrentham	16	Quincy	25	Lynn	3
Franklin	3	Milton	4	Total	2,441

(c) Totals:

1. Employees included in survey returns:	2,809
2. Covered employment in all classifications:	9,016

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Norwood (Continued)

3. Covered manufacturing employment: 4,884

4. % Survey returns to covered manufacturing employment: 58%

Town of Plainville

(a) Local Employees' Place of Residence:

Plainville	118	Blackstone	2	Woonsocket	10
N. Attleboro	150	Foxboro	2	Pawtucket & CF	24
Franklin	36	Bellingham	4	Prov. & E. Prov.	5
Attleboro	20	Berkley	1	Misc. R. I.	8
Wrentham	19	Easton	1	Total R. I.	47
Mansfield	13	Seekonk	1	Total Out State	47
Taunton	7	Misc. Mass.	0	Grand Total	423
Norton	2	Total Mass.	376		

(b) Local Residents' Place of Employment:

Plainville	118	Wrentham	29	N. Attleboro	48
Attleboro	89	Walpole	11	Norwood	11
				Total	306

(c) Totals:

1. Employees included in survey returns: 423

2. Covered employment in all classifications: 1,092

3. Covered manufacturing employment: 710

4. % Survey returns to covered manufacturing employment: 60%

Town of Randolph

(a) Local Employees' Place of Residence:

Randolph	20	Brookline	1	Total Mass.	28
Brockton	2	Winthrop	1	Total Out State	0
Easton	2	Avon	1	Grand Total	28
Abington	1	Misc. Mass.	0		

(b) Local Residents' Place of Employment:

Randolph	20	Holbrook	7	Hingham	4
Boston	219	Stoughton	5	Weymouth	4
Cambridge	11	Quincy	228	Hanover	3
Norwood	32	Milton	38	Canton	2
Brockton	52	Braintree	24	Total	666
Avon	12	Dedham	5		

Randolph (Continued)

(c) Totals:

1. Employees included in survey returns:	28
2. Covered employment in all classifications:	2,390
3. Covered manufacturing employment:	1,406
4. % Survey returns to covered manufacturing employment:	2%

Town of Reading

(a) Local Employees' Place of Residence:

Reading	136	Boston	4	Needham	2
Wakefield	30	Peabody	4	Waltham	2
N. Reading	21	Arlington	3	Wellesley	2
Stoneham	19	Cambridge	3	Winchester	2
Woburn	17	Lawrence	3	Misc. Mass	12
Wilmington	14	Medford	3	Total Mass.	336
Tewksbury	10	N. Andover	3	Misc. N. H.	3
Melrose	10	Somerville	3	Total N. H.	3
Lynnfield	8	Andover	2	Misc. Me.	1
Billerica	6	Lynn	2	Total Me.	1
Malden	6	Lexington	2	Total Out State	4
Burlington	5	Methuen	2	Grand Total	340

(b) Local Residents' Place of Employment:

Reading	136	Lowell	4	Bedford	20
Boston	38	Billerica	2	Malden	31
Waltham	28	Westford	11	Burlington	20
Somerville	14	Quincy	10	Everett	71
Cambridge	11	Wakefield	338	Medford	9
Wilmington	90	Salem	15	Chelsea	4
N. Andover	25	Danvers	12	Concord	3
Lawrence	11	Peabody	3	Melrose	4
Andover	9	Woburn	28	Winchester	16
				Total	963

(c) Totals:

1. Employees included in survey returns:	340
2. Covered employment in all classifications:	1,828
3. Covered manufacturing employment:	609
4. % Survey returns to covered manufacturing employment:	56%

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

City of Revere

(a) Local Employees' Place of Residence:

Revere	27	Boxford	2	Winthrop	1
Everett	12	Medford	1	Stoneham	1
Chelsea	8	Woburn	2	Misc. Mass.	0
Boston	10	Nahant	1	Total Mass.	84
Saugus	5	North Reading	1	Total Out State	0
Wakefield	5	Lynn	1	Grand Total	84
Malden	3	Lynnfield	1		
Somerville	2	Watertown	1		

(b) Local Residents' Place of Employment:

Revere	27	Beverly	8	Woburn	6
Quincy	40	Salem	18	Melrose	6
Boston	385	Saugus	6	Winthrop	2
Cambridge	67	Chelsea	239	Burlington	4
Somerville	17	Everett	106	Newton	4
Waltham	13	Medford	41	Total	1,146
Wakefield	29	Malden	47		
Lynn	71	Brookline	10		

(c) Totals:

1. Employees included in survey returns:	84
2. Covered employment in all classifications:	3,861
3. Covered manufacturing employment:	453
4. % Survey returns to covered manufacturing employment:	19%

Town of Sharon

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Walpole	65	Norton	4	Canton	29
Norwood	28	Dighton	4	Quincy	18
Mansfield	10	Stoughton	7	Dedham	4
				Total	169

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	608
3. Covered manufacturing employment:	98
4. % Survey returns to covered manufacturing employment:	0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

City of Somerville

(a) Local Employees' Place of Residence:

Somerville	551	Chelsea	5	Beverly	1
Boston	180	Watertown	5	Acton	1
Cambridge	151	Winchester	5	Randolph	1
Arlington	91	Winthrop	4	Salem	1
Malden	73	Tewksbury	4	Sharon	1
Medford	69	Belmont	4	Walpole	1
Everett	60	Milton	3	Wayland	1
Quincy	18	Waltham	3	Weston	2
Revere	17	Wellesley	3	Westwood	1
Reading	14	Bedford	2	Weymouth	2
Stoneham	11	Haverhill	2	Misc. Mass.	80
Wakefield	10	Manchester	2	Total Mass.	1,464
Woburn	20	Marlboro	2	Misc. R. I.	1
Lexington	15	Newton	2	Total R. I.	1
Billerica	11	Lowell	1	Misc. Conn.	2
Brookline	9	Dedham	1	Total Conn.	2
Saugus	8	Danvers	1	Total Out State	3
Melrose	7	Brockton	1	Grand Total	1,467
Wilmington	6	Braintree	1		

(b) Local Residents' Place of Employment:

Somerville	551	Lynn	8	Winchester	6
Cambridge	1,459	Salem	5	Lexington	4
Boston	506	Saugus	2	Woburn	5
Waltham	167	Watertown	638	Reading	3
Methuen	11	Everett	114	Wellesley	3
Billerica	2	Medford	157	Natick	3
Wilmington	15	Malden	70	Needham	12
Hudson	3	Burlington	39	Brookline	7
Littleton	8	Concord	34	Winthrop	3
Wrentham	12	Chelsea	29	Revere	2
Westford	5	Bedford	25	Belmont	1
Quincy	60	Wayland	34	Newton	176
Dedham	87	Arlington	19	Total	4,297

(c) Totals:

1. Employees included in survey returns: 1,467

2. Covered employment in all classifications: 17,975

3. Covered manufacturing employment: 5,142

4. % Survey returns to covered manufacturing employment: 29%

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Stoneham

(a) Local Employees' Place of Residence:

Stoneham	124	Melrose	8	Revere	2
Woburn	113	Lynn	6	Beverly	2
Winchester	35	Boston	4	Danvers	2
Reading	21	Andover	3	Lawrence	10
Wilmington	19	Burlington	2	Misc. Mass.	7
Wakefield	20	N. Reading	2	Total Mass.	420
Lowell	12	Peabody	2	Total Out State	0
Malden	11	Tewksbury	2	Grand Total	420
Medford	11	Shirley	2		

(b) Local Residents' Place of Employment:

Stoneham	124	Salem	8	Bedford	16
Boston	47	Woburn	147	Melrose	9
Cambridge	16	Malden	33	Chelsea	9
Somerville	11	Reading	19	Burlington	17
Westford	6	Everett	18	Concord	3
Wakefield	259	Winchester	25	Revere	1
				Total	768

(c) Totals:

1. Employees included in survey returns: 420

2. Covered employment in all classifications: 2,412

3. Covered manufacturing employment: 772

4. % Survey returns to covered manufacturing employment: 54%

Town of Wakefield

(a) Local Employees Place of Residence:

Wakefield	1,035	Medford	27	Newburyport	5
Lynn	693	Beverly	13	Burlington	5
Reading	338	Salem	16	Cambridge	4
Malden	292	Lowell	31	Chelsea	12
Stoneham	259	Andover	12	Dracut	7
Melrose	170	Lawrence	16	Lexington	4
Saugus	189	Newton	8	Wenham	4
Woburn	131	Billerica	7	Haverhill	6
Wilmington	129	Winchester	8	Boxford	4
Tewksbury	100	Swampscott	10	Methuen	3
N. Reading	36	Danvers	8	Misc. Mass.	116
Boston	38	Ipswich	6	Total Mass.	3,881
Peabody	31	Arlington	9	Misc. N. H.	1
Lynnfield	25	Gloucester	6	Total N. H.	1
Everett	26	Manchester	5	Misc. O. S.	11
Revere	29	Marblehead	5	Total Out State	12
				Grand Total	3,893

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Wakefield (Continued)

(b) Local Residents' Place of Employment:

Wakefield	1,035	Middleton	4	Burlington	7
Boston	30	Peabody	3	Winchester	15
Waltham	18	Malden	63	Medford	12
Somerville	10	Everett	54	Chelsea	8
Wilmington	6	Woburn	44	Revere	5
Westford	30	Reading	30	Melrose	7
Salem	23	Stoneham	20	Total	1,451
Lynn	12	Bedford	15		

(c) Totals:

1. Employees included in survey returns:	3,893
2. Covered employment in all classifications:	8,572
3. Covered manufacturing employment:	4,966
4. % Survey returns to covered manufacturing employment:	78%

City of Waltham

(a) Local Employees' Place of Residence:

Waltham	2,352	Brookline	45	Everett	16
Boston	1,215	Burlington	45	Hudson	10
Newton	401	Maynard	40	Lynn	12
Cambridge	219	Sudbury	44	Norwood	19
Somerville	167	Wayland	55	Revere	13
Arlington	164	Wellesley	54	Wakefield	18
Framingham	103	Concord	37	Westwood	13
Lowell	106	Weston	33	Wilmington	15
Watertown	191	Littleton	25	Winchester	16
Lexington	97	Braintree	24	Misc. Mass.	922
Belmont	83	Acton	21	Total Mass.	7,293
Medford	89	Dracut	21	Misc. R. I.	8
Billerica	67	Malden	24	Total R. I.	8
Bedford	62	Needham	26	Misc. N. H.	46
Natick	67	Quincy	27	Total N. H	46
Tewksbury	67	Reading	28	Misc. O. S.	20
Woburn	73	Weymouth	33	Total Out State	74
Marlboro	51	Lawrence	19	Grand Total	7,367
Beverly	53	Chelmsford	16		

(b) Local Residents' Place of Employment:

Waltham	2,352	Lowell	3	Norwood	5
Cambridge	47	Maynard	19	Wrentham	4
Boston	45	Acton	11	Quincy	11
Somerville	3	Stow	5	Dedham	4

Waltham (Continued)

(b)	Watertown	293	Burlington	69	Belmont		5
	Wayland	170	Medford	26	Everett		6
	Wellesley	49	Concord	7	Chelsea		4
	Bedford	43	Lexington	5	Natick		2
	Framingham	30	Arlington	6	Sudbury		3
	Needham	30	Winchester	3	Newton		377
					Total		3,647

(c) Totals:

1. Employees included in survey returns: 7,367

2. Covered employment in all classifications: 21,612

3. Covered manufacturing employment: 20,529

4. % Survey returns to covered manufacturing employment: 36%

Town of Walpole

(a) Local Employees' Place of Residence:

Walpole	1,065	Milford	4	Brookline		1
Norwood	1,021	Plainville	11	Milton		1
Franklin	146	Boston	10	Taunton		1
Foxboro	110	N. Attleboro	10	Millville		1
Norfolk	89	Millis	7	Waltham		1
Dedham	82	Attleboro	8	Hanover		1
Sharon	65	Easton	3	Misc. Mass.		512
Wrentham	62	Needham	3	Total Mass.		3,457
Stoughton	52	Wellesley	3	Woonsocket		27
Westwood	46	Sherborn	3	Pawtucket & CF		7
Brockton	43	Newton	2	Prov. & E. Prov.		3
Canton	28	Bellingham	2	Misc. R. I.		57
Medfield	30	Framingham	2	Total R. I.		91
Mansfield	19	Norton	2	Misc. N. H.		1
Medway	5	Blackstone	1	Total N. H.		1
Dover	4	Raynham	1	Total Out State		92
				Grand Total		3,549

(b) Local Residents' Place of Employment:

Walpole	1,065	Attleboro	5	Dedham	13
Norwood	282	N. Attleboro	2	Braintree	2
Wrentham	13	Ashland	4	Needham	9
Medfield	13	Stoughton	3	Framingham	4
Mansfield	8	Canton	18	Total	1,441

(c) Totals:

1. Employees included in survey returns: 3,549

Walpole (Continued)

2. Covered employment in all classifications: 4,026

3. Covered manufacturing employment: 2,061

4. % Survey returns to covered manufacturing employment: 120%

Town of Watertown

(a) Local Employees' Place of Residence:

Watertown	1,284	Melrose	6	Bedford	3
Boston	1,534	Dedham	6	Reading	3
Cambridge	970	Maynard	6	Wellesley	3
Somerville	638	Woburn	5	Revere	3
Waltham	293	Sudbury	5	Norwood	3
Arlington	288	Acton	5	Randolph	3
Belmont	201	Burlington	5	Lynn	3
Newton	83	Peabody	5	Misc. Mass.	1,703
Medford	33	Hingham	5	Total Mass.	7,216
Lexington	25	Chelsea	4	Misc. R. I.	1
Framingham	19	Concord	4	Total R. I.	1
Natick	12	Westwood	4	Misc. N. H.	1
Billerica	12	Brockton	4	Total N. H.	1
Malden	10	Canton	4	Misc. O. S.	477
Everett	10	Wayland	4	Total Out State	479
Needham	8	Medfield	4	Grand Total	7,695
Winchester	7	Marlboro	4		
Brookline	6	Westford	3		

(b) Local Residents' Place of Employment:

Watertown	1,284	Wrentham	3	Revere	1
Waltham	191	Wayland	71	Bedford	22
Boston	104	Medford	13	Concord	6
Cambridge	187	Framingham	8	Burlington	6
Somerville	5	Natick	4	Needham	29
Maynard	10	Wellesley	3	Lexington	2
Stow	8	Everett	5	Newton	274
Dighton	5	Malden	6	Total	2,247

(c) Totals:

1. Employees included in survey returns: 7,695

2. Covered employment in all classifications: 14,987

3. Covered manufacturing employment: 9,720

4. % Survey returns to covered manufacturing employment: 79%

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Wellesley

(a) Local Employees' Place of Residence:

Wellesley	30	Northboro	2	Stoughton	1
Natick	53	Franklin	2	Belmont	1
Newton	50	Millis	2	Southboro	1
Waltham	49	Weymouth	2	Medfield	1
Framingham	24	Walpole	2	Arlington	1
Needham	9	Wayland	1	Milford	1
Boston	9	Burlington	1	Brookline	3
Norwood	7	Holliston	1	Misc. Mass.	0
Cambridge	5	Medford	1	Total Mass.	285
Dedham	5	Milton	1	Misc. R. I.	1
Sudbury	4	Brockton	1	Total R. I.	1
Watertown	3	Acton	1	Total Out State	1
Somerville	3	Hopkinton	1	Grand Total	286
Medway	3	Marlboro	1		
Westboro	2	Blackstone	1		

(b) Local Residents' Place of Employment:

Wellesley	30	Norwood	6	Natick	22
Waltham	54	Walpole	3	Melrose	4
Boston	37	Ashland	5	Bedford	8
Cambridge	36	Taunton	2	Newton	5
Somerville	3	Needham	62	Total	320
Millis	16	Framingham	27		

(c) Totals:

1. Employees included in survey returns: 286
2. Covered employment in all classifications: 4,257
3. Covered manufacturing employment: 478
4. % Survey returns to covered manufacturing employment: 60%

Town of Weston

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Waltham	53	Wayland	14	Newton	7
Cambridge	13	Needham	3	Total	94
Somerville	2	Belmont	2		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 607

Weston (Continued)

3. Covered manufacturing employment: 97

4. % Survey returns to covered manufacturing employment: 0

Town of Westwood

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Boston	31	Wrentham	5	Dedham	9
Waltham	13	Medfield	2	Canton	3
Norwood	75	Stoughton	2	Watertown	4
Walpole	46	Brockton	1	Newton	20
Needham	53	Avon	1	Total	265

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 1,572

3. Covered manufacturing employment: 160

4. % Survey returns to covered manufacturing employment: 0

Town of Wilmington

(a) Local Employees' Place of Residence:

Wilmington	173	Boston	5	Lexington	1
Lawrence	422	Melrose	5	Groton	1
Methuen	165	Saugus	4	Amherst	1
Andover	141	Lynnfield	4	Ipswich	1
Tewksbury	116	Wakefield	6	Billerica	8
Lowell	100	Everett	3	Malden	9
Reading	90	Peabody	2	Revere	6
N. Andover	82	Dracut	2	Misc. Mass.	0
N. Reading	68	Salem	2	Total Mass.	1,532
Chelsea	28	Burlington	2	Salem	76
Cambridge	21	Lynn	2	Misc. N. H.	7
Woburn	19	Arlington	2	Total N. H.	83
Winchester	15	Stoneham	2	Misc. O. S.	4
Somerville	15	Winthrop	2	Total Out State	87
Medford	6	Nahant	1	Grand Total	1,619

(b) Local Residents' Place of Employment:

Wilmington	173	Somerville	6	Wakefield	129
Cambridge	32	Lowell	37	Danvers	3
Boston	23	Andover	3	Salem	2
Waltham	15	Westford	7	Woburn	104

Wilmington (Continued)

(b)	Burlington	34	Malden	14	Medford	3
	Stoneham	19	Everett	11	Lynn	49
	Reading	14	Winchester	9	Total	687

(c) Totals:

1. Employees included in survey returns:	1,619
2. Covered employment in all classifications:	3,662
3. Covered manufacturing employment:	514
4. % Survey returns to covered manufacturing employment:	314%

Town of Winchester

(a) Local Employees' Place of Residence:

Winchester	110	Wilmington	9	Chelmsford	2
Woburn	88	Billerica	7	Beverly	2
Stoneham	25	Somerville	6	Danvers	2
Wakefield	15	Lexington	5	Andover	1
Reading	16	Lowell	5	Haverhill	1
Burlington	13	Cambridge	5	Boston	2
Medford	11	Melrose	5	Waltham	3
Arlington	9	Lynnfield	3	Misc. Mass.	17
Malden	9	Tewksbury	3	Total Mass.	375
Lynn	9	Saugus	3	Total Out State	0
				Grand Total	375

(b) Local Residents' Place of Employment:

Winchester	110	Wakefield	8	Malden	16
Cambridge	95	Salem	3	Everett	13
Boston	22	Saugus	3	Watertown	7
Waltham	16	Woburn	104	Arlington	7
Somerville	5	Stoneham	35	Chelsea	5
Wilmington	15	Burlington	32	Newton	6
Lowell	7	Medford	21	Total	552
Lawrence	3	Bedford	19		

(c) Totals:

1. Employees included in survey returns:	375
2. Covered employment in all classifications:	2,238
3. Covered manufacturing employment:	689
4. % Survey returns to covered manufacturing employment:	54%

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Winthrop

(a) Local Employees' Place of Residence:

Winthrop	21	Newton	1	Bedford	1
Boston	3	Belmont	1	Melrose	1
Somerville	3	Wilmington	1	Chelmsford	1
Lawrence	2	Scituate	1	Misc. Mass.	0
Everett	2	Chelsea	1	Total Mass.	42
Revere	2	Peabody	1	Total Out State	0
				Grand Total	42

(b) Local Residents' Place of Employment:

Winthrop	21	Somerville	4	Everett	5
Quincy	18	Lynn	4	Malden	3
Boston	91	Chelsea	30	Revere	1
				Total	177

(c) Totals:

1. Employees included in survey returns:	42
2. Covered employment in all classifications.	955
3. Covered manufacturing employment:	209
4. % Survey returns to covered manufacturing employment:	20%

City of Woburn

(a) Local Employees' Place of Residence:

Woburn	843	Wakefield	44	Somerville	5
Stoneham	147	Lynn	34	Newton	2
Winchester	104	Malden	23	Lexington	2
Wilmington	104	Reading	28	Cambridge	2
Burlington	88	Everett	17	Peabody	1
Boston	88	Melrose	14	Bedford	1
Lowell	80	Tewksbury	8	Misc. Mass.	70
Lawrence	42	Medford	12	Total Mass.	1,828
Billerica	63	Revere	6	Total Out State	0
				Grand Total	1,828

(b) Local Residents' Place of Employment:

Woburn	843	Maynard	5	Winchester	88
Stoughton	2	Wakefield	131	Stoneham	113
Waltham	73	Peabody	16	Medford	29
Cambridge	44	Middleton	5	Bedford	34
Boston	42	Danvers	4	Reading	17
Somerville	5	Wayland	16	Malden	23
Wilmington	19	Everett	156	Watertown	5
Lowell	3	Burlington	121	Concord	5

Woburn (Continued)

(b)	Lexington	3	Arlington	3	Revere		1
					Total		1,806

(c) Totals:

1.	Employees included in survey returns:	1,828
2.	Covered employment in all classifications:	5,608
3.	Covered manufacturing employment:	3,367
4.	% Survey returns to covered manufacturing employment:	54%

Town of Wrentham

(a) Local Employees' Place of Residence:

Wrentham	81	Westwood	5	Sharon	2
Franklin	37	Waltham	4	Easton	2
N. Attleboro	34	Newton	4	Quincy	2
Plainville	29	Stoughton	3	Misc. Mass.	17
Boston	32	Watertown	3	Total Mass.	350
Norwood	16	Milton	3	Woonsocket	27
Walpole	13	Dedham	3	Pawtucket & CF	11
Somerville	12	Bellingham	3	Prov. & E. Prov.	2
Foxboro	11	Arlington	2	Misc. R. I.	4
Attleboro	8	Billerica	2	Total R. I.	44
Cambridge	6	Lynn	2	Total Out State	44
Norfolk	5	Medford	2	Grand Total	394
Mansfield	5	Medway	2		

(b) Local Residents' Place of Employment:

Wrentham	81	N. Attleboro	15	Medfield	2
Walpole	62	Franklin	8	Holliston	2
Norwood	33	Attleboro	7	Total	231
Plainville	19	Mansfield	2		

(c) Totals:

1.	Employees included in survey returns:	394
2.	Covered employment in all classifications:	845
3.	Covered manufacturing employment:	435
4.	% Survey returns to covered manufacturing employment:	91%

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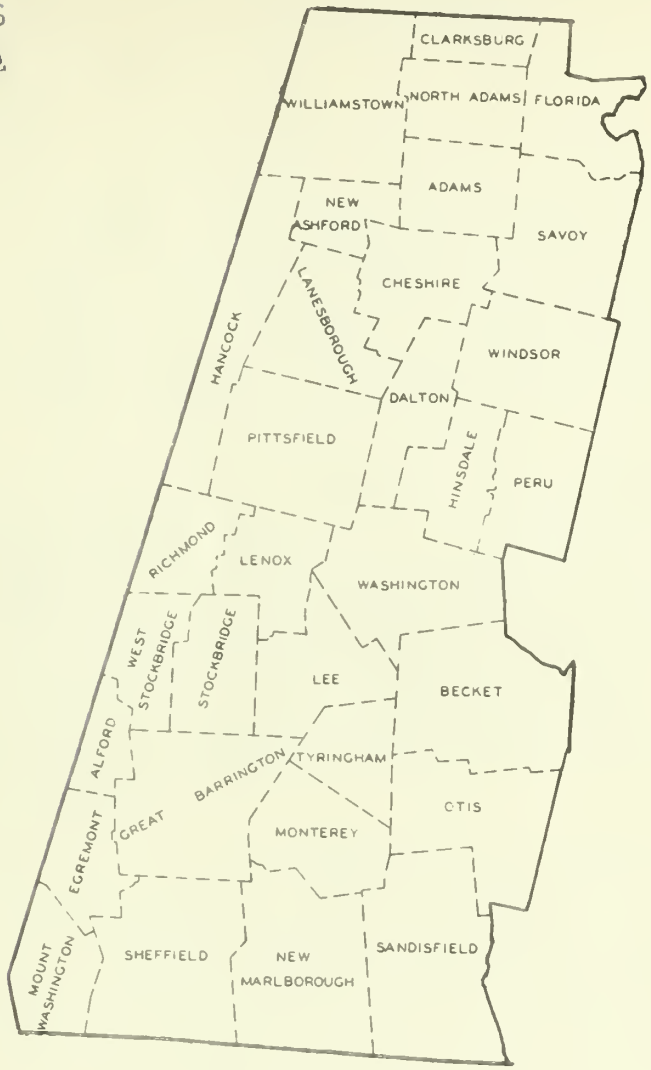

MANUFACTURING COMMUTING SURVEY

[5.] BERKSHIRE

DIVISION OF PLANNING, MAY, 1963
from a survey taken September, 1960

Massachusetts
Department of
Commerce

150 CAUSEWAY STREET
BOSTON 14
LA 3-6640

COMMUTING SURVEY OF COVERED MANUFACTURING EMPLOYEES
September, 1960

I. Introduction

An important indicator of the social and economic influence of a community or a region is the relationship between its labor force and the location of their employment. The commuting patterns of an employee reveal in general terms his income, his skills, and his overall orientation to the economy. From this, the task of judging the optimum location of highways, plants, commercial and other facilities dependent upon easy access, markets, and labor force is facilitated.

Thus, when the Division of Planning was preparing its Study of Areas for Regional Planning, published in December, 1960, it became evident that any attempt to determine the regional orientation of our three hundred fifty-one cities and towns could not omit this important factor. However, since detailed information of this type was not available, the Division surveyed over 2,500 manufacturers in September, 1960, to locate the place of residence of their employees. Almost 65% responded. The results were scored and included as one of nine determinants for regional orientation.

This booklet presents the "raw data" assembled in the commuting survey for one of ten areas in the Commonwealth. Several booklets were used, because a single presentation would be unwieldly and, in most instances, unnecessary. Practical considerations, as well as existing and proposed regional organizations and study efforts governed the choice of areas, but the cities and towns included in a particular area do not necessarily form a logical or effective planning region. Booklets are available for the following Areas: Berkshire, Pioneer Valley, Central Massachusetts, Merrimack Valley, Southeastern Massachusetts, the Coastal Plain, and Massachusetts Bay, West, North, South and Central.

II. Method

The survey was taken for maximum inclusion of covered manufacturing employees; i. e., those whose employers report to the Massachusetts Division of Employment Security and which fall into the manufacturing categories of the Standard Industrial Classification. Questionnaires were sent to enough manufacturers in a city or town to locate nearly all reported employees. In most instances, this meant a questionnaire to all employers of over twenty-five workers. None were sent to employers of under twenty-five. In large manufacturing centers, however, fifty was the minimum.

The questionnaires which were returned were recorded and totaled to show the place of residence of persons working in each city or town. Then an analysis was made to determine the converse--the place of employment of those residing in the various cities and towns. Many communities did not have a manufacturer large enough to survey; others did not respond. Thus there are no tabulations for many minor manufacturing towns.

For comparison and control, the number of employees included in the survey return for each city and town were measured against the number of employees reported to the Division of Employment Security from each community. Some employers did not send up-to-date information or may have listed certain "non-covered" employees, and, though a valuable indicator of survey coverage, the comparison may be somewhat inaccurate

In this booklet, every municipality in the areas described on the cover is listed to show:

(a) The place of residence of those working in each city and town from which information was received.

(b) The place of employment of those residing in each city and town which was indicated in "place of residence" information.

(c) Comparisons and totals:

1. The employees included in the "place of residence" survey.

2. The number of employees reported to the Division of Employment Security as working in all (manufacturing and non-manufacturing) categories of industry, during September, 1960.

3. The number of employees reported to the Division of Employment Security as employed in manufacturing in September, 1960.

4. The percentage of survey returns to reported manufacturing employment.

BERKSHIRE

Adams

Alford

Becket

Cheshire

Clarksburg

Dalton

Egremont

Florida

Great Barrington

Hancock

Hinsdale

Lanesborough

Lee

Lenox

Monterey

Mount Washington

New Ashford

New Marlborough

North Adams

Otis

Peru

Pittsfield

Richmond

Sandisfield

Savoy

Sheffield

Stockbridge

Tyringham

Washington

West Stockbridge

Williamstown

Windsor

(32)

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Adams

(a) Local Employees' Place of Residence:

Adams	868	Clarksburg	13	Plainfield	1
North Adams	347	Savoy	8	Total Mass.	1306
Cheshire	39	Pittsfield	4	Total Vermont	9
Williamstown	24	Hinsdale	2	Grand Total	1315

(b) Local Residents' Place of Employment:

Pittsfield	887	Williamstown	57	Clarksburg	25
Adams	868	Cheshire	14	Total	2606
North Adams	753	Dalton	2		

(c) Totals:

1. Employees included in survey returns: 1315
2. Covered employment in all classifications: 2331
3. Covered manufacturing employment: 1492
4. % Survey returns to covered manufacturing employment: 88%

Town of Alford

(a) Local Employees' Place of Residence : Too few for survey

(b) Local Residents' Place of Employment:

Gt. Barrington	2	W. Stockbridge	2	Total	4

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 0
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Becket

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Chester	13	Pittsfield	41	Total	56
Cheshire	1	Dalton	1		

Becket (Continued)

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	28
3. Covered manufacturing employment:	0
4. % Survey returns to covered manufacturing employment:	0

Town of Cheshire

(a) Local Employees' Place of Residence:

Cheshire	46	Lanesboro	2	Misc. N. Y.	1
Adams	14	Hinsdale	2	Total N. Y.	1
Pittsfield	10	Becket	1	Total Out State	1
North Adams	8	Total Mass.	83	Grand Total	84

(b) Local Residents' Place of Employment:

Pittsfield	205	North Adams	7	Total	304
Cheshire	46	Dalton	6		
Adams	39	Williamstown	1		

(c) Totals:

1. Employees included in survey returns:	84
2. Covered employment in all classifications:	155
3. Covered manufacturing employment:	64
4. % Survey returns to covered manufacturing employment:	131% *

* The November Covered Manufacturing Employment was also 64.

Town of Clarksburg

(a) Local Employees' Place of Residence:

Clarksbury	90	Adams	25	Williamstown	5
North Adams	80	Pittsfield	15	Total	215

(b) Local Residents' Place of Employment:

Clarksburg	90	Williamstown	13	Pittsfield	10
North Adams	31	Adams	13	Total	157

(c) Totals:

1. Employees included in survey returns:	215

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Clarksburg (Continued)

(c) 2. Covered employment in all classifications: 215

3. Covered manufacturing employment: 178

4. % Survey returns to covered manufacturing employment: 121% *
*The November Covered Employment Figure was 168

Town of Dalton

(a) Local Employees' Place of Residence:

Dalton	517	Adams	2	Total Mass.	631
Pittsfield	270	Cummington	2	Misc. N. Y.	1
Hinsdale	64	Becket	1	Total N. Y.	1
Peru	17	Lee	1	Total Out State	1
Windsor	12	Lanesboro	2	Grand Total	902
Cheshire	6	Misc. Mass.	7		

(b) Local Residents' Place of Employment:

Pittsfield	531	Dalton	517	Total	1048

(c) Totals:

1. Employees included in survey returns: 902

2. Covered employment in all classifications: 1243

3. Covered manufacturing employment: 919

4. % Survey returns to covered manufacturing employment: 98%

Town of Egremont

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Great Barrington	13	Pittsfield	2
		Total	15

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 131

3. Covered manufacturing employment: 2

4. % Survey returns to covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Florida

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

North Adams	5	Pittsfield	1	Total	6

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 3
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Great Barrington

(a) Local Employees' Place of Residence:

Great Barrrington	405	Lenox	2
Sheffield	15	Alford	2
Egremont	13	Otis	1
W. Stockbridge	9	Total Mass.	467
Lee	5	Misc. Conn.	18
Stockbridge	7	Total Conn.	18
New Marlboro	4	Total Out State	18
Pittsfield	4	Grand Total	485

(b) Local Residents' Place of Employment:

Gt. Barrington	405	Lee	54	Total	515
Pittsfield	54	W. Stockbridge	2		

(c) Totals:

1. Employees included in survey returns: 485
2. Covered employment in all classifications: 2480
3. Covered manufacturing employment: 505
4. % Survey returns to covered manufacturing employment: 96%

Town of Hancock

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Pittsfield	12	Williamstown	2	Total	14

Hancock (Continued)

(c) 1. Employees included in survey returns: 0

2. Covered employment in all classifications: 30

3. Covered manufacturing employment: 4

4. % Survey returns to covered manufacturing employment: 0

Town of Hinsdale

(a) Local Employees' Place of Residence: No reply to survey

(b) Local Residence Place of Employment:

Pittsfield	128	Cheshire	2	Total	196
Dalton	64	Adams	2		

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications 80

3. Covered manufacturing employment: 35

4. % Survey returns to covered manufacturing employment: 0

Town of Lanesborough

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Pittsfield	234	Dalton	2
Williamstown	3	North Adams	1
Cheshire	2	Total	242

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 118

3. Covered manufacturing employment: 7

4. % Survey returns to covered manufacturing employment: 0

Town of Lee

(a) Local Employees Place of Residence:

Lee	356	Lenox	92	Great Barrington	54

Lee (Continued)

(a)

Stockbridge	32	Huntington	1	Total	582
Chester	1	Misc. Mass.	46		

(b) Local Residents' Place of Employment:

Lee	356	Gt. Barrington	5	W. Stockbridge	1
Pittsfield	135	Dalton	1	Total	498

(c) Totals:

1. Employees included in survey returns: 582
2. Covered employment in all classifications: 1533
3. Covered manufacturing employment: 947
4. % Survey returns to covered manufacturing employment: 61%

Town of Lenox

(a) Local Employees' Place of Residence: Too few for survey.

(b) Local Residents' Place of Employment:

Pittsfield	256	Gt. Barrington	2	Total	351
Lee	92	W. Stockbridge	1		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 857
3. Covered manufacturing employment: 14
4. % Survey returns to covered manufacturing employment: 0

Town of Monterey

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

W. Stockbridge	2	Total	2

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 49
3. Covered manufacturing employment: 0

Monterery (Continued)

(c) Totals:

4. % Survey returns to covered manufacturing employment: 0

Town of Mount Washington

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 19
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of New Ashford

(a) Local Employees Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Pittsfield 1 Total 1

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 61
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of New Marlborough

(a) Local Employees' Place of Residence: No reply to survey.

(b) Local Residents' Place of Employment:

Great Barrington 4 Total 4

(c) Totals:

1. Employees included in survey returns: 0

New Marlborough (Continued)

(c) Totals:

2. Covered employment in all classification: 96

3. Covered manufacturing employment: 61

4. % Survey returns to covered manufacturing employment: 0

City of North Adams

(a) Local Employees' Place of Residence:

North Adams	3019	Pittsfield	2	Total Mass.	4264
Adams	753	Florida	5	Total Vt.	121
Williamstown	446	Cheshire	7	Total N. Y.	4
Clarksburg	31	Lanesboro	1	Total Out State	125
				Grand Total	4389

(b) Local Residents' Place of Employment:

North Adams	3019	Williamstown	279	Cheshire	8
Pittsfield	446	Clarksburg	80	Total	4193
Adams	347	Monroe	14		

(c) Totals:

1. Employees included in survey returns: 4389

2. Covered employment in all classifications: 6937

3. Covered manufacturing employment: 4626

4. % Survey returns to covered manufacturing employment: 95%

Town of Otis

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Westfield	5	Gt. Barrington	1	Total	6

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 43

3. Covered manufacturing employment: 5

4. % Survey returns to covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Peru

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Dalton	17	Pittsfield	3	Total	20

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 0
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

City of Pittsfield

(a) Local Employees' Place of Residence:

Pittsfield	8119	Becket	41	Florida	1
Adams	887	W. Stockbridge	36	New Ashford	1
Dalton	531	Williamstown	26	Misc. Mass.	141
North Adams	446	Windsor	19	Total Mass.	11,420
Lenox	256	Hancock	12	Misc. N. Y.	219
Lanesboro	234	Clarksburg	10	Total N. Y.	219
Cheshire	205	Savoy	8	Misc. Vt.	156
Lee	135	Washington	7	Total Vt.	156
Hinsdale	128	Tyringham	3	Misc. Conn.	50
Richmond	58	Peru	3	Total Conn.	50
Stockbridge	55	Sheffield	2	Total Out State	425
Gt. Barrington	54	Egremont	2	Grand Total	11,845

(b) Local Residents' Place of Employment:

Pittsfield	8119	Northampton	10	N. Adams	2
Dalton	270	W. Stockbridge	6	Chester	2
Clarksburg	15	Gt. Barrington	4	Total	8,442
Cheshire	10	Adams	4		

(c) Totals:

1. Employees included in survey returns: 11,845
2. Covered employment in all classifications: 23,086
3. Covered manufacturing employment: 13,772
4. % Survey returns to covered manufacturing employment: 86%

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Richmond

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Pittsfield 58 Total 58

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 33
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Sandisfield

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents ' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 54
3. Covered manufacturing employment: 4
4. % Survey returns to covered manufacturing employment: 0

Town of Savoy

(a) Local Employees' Place of Residents: Too few for survey

(b) Local Residents' Place of Employment:

Pittsfield 8 Adams 18 Total 26

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 2
3. Covered manufacturing employment: 1
4. % Survey returns to covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Sheffield

(a) Local Employees' Place of Residence: No reply to survey

(b) Local Residents' Place of Employment:

Great Barrington	15	Pittsfield	2	Total	17

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	335
3. Covered manufacturing employment:	87
4. % Survey returns to covered manufacturing employment:	0

Town of Stockbridge

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Pittsfield	55	Great Barrington	7
Lee	32	Total	94

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	166
3. Covered manufacturing employment:	9
4. % Survey returns to covered manufacturing employment:	0

Town of Tyringham

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Pittsfield	3	Total	3

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	17
3. Covered manufacturing employment:	12
4. % Survey returns to covered manufacturing employment:	0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Washington

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Pittsfield	7	Total	7

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 40
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of West Stockbridge

(a) Local Employees' Place of Residence:

W. Stockbridge	12	Lee	1	Total N. Y.	1
Pittsfield	6	Lenox	1	Misc. Conn.	1
Alford	2	Richmond	1	Total Conn.	1
Monterey	2	Total Mass.	27	Total Out State	2
Gt. Barrington	2	Misc. N. Y.	1	Grand Total	29

(b) Local Residents' Place of Employment:

Pittsfield	36	Gt. Barrington	9
W. Stockbridge	12	Total	57

(c) Totals:

1. Employees included in survey returns: 29
2. Covered employment in all classifications: 96
3. Covered manufacturing emplement: 23
4. % Survey returns to covered manufacturing employment: 126%*

*The November Covered Manufacturing Employment was 31

Town of Williamstown

(a) Local Employees' Place of Residence:

Williamstown	205	Lanesboro	3	Misc. N. Y.	7
North Adams	279	Hancock	2	Total N. Y.	7
Adams	57	Cheshire	1	Misc. Vt.	22
Clarksburg	13	Total Mass.	560	Total Vt.	22
				Total Out State	29
				Grand Total	589

Williamstown (Continued)

(b) Local Residents ' Place of Employment:

North Adams	446	Adams	24
Williamstown	205	Clarksburg	5
Pittsfield	26	Total	706

(c) Totals:

1. Employees included in survey returns:	589
2. Covered employment in all classifications:	1271
3. Covered manufacturing employment:	624
4. % Survey returns to covered manufacturing employment:	94%

Town of Windsor

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Pittsfield	19	Dalton	12	Total	31

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	2
3. Covered manufacturing employment:	0
4. % Survey returns to covered manufacturing employment:	0

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MANUFACTURING COMMUTING SURVEY

[6.] SOUTHEASTERN MASSACHUSETTS

Massachusetts Department of Commerce

150 CAUSEWAY STREET
BOSTON 14
LA 3-6640

DIVISION OF PLANNING, MAY, 1963
from a survey taken September, 1960

COMMUTING SURVEY OF COVERED MANUFACTURING EMPLOYEES
September, 1960

I. Introduction

An important indicator of the social and economic influence of a community or a region is the relationship between its labor force and the location of their employment. The commuting patterns of an employee reveal in general terms his income, his skills, and his overall orientation to the economy. From this, the task of judging the optimum location of highways, plants, commercial and other facilities dependent upon easy access, markets, and labor force is facilitated.

Thus, when the Division of Planning was preparing its Study of Areas for Regional Planning, published in December, 1960, it became evident that any attempt to determine the regional orientation of our three hundred fifty-one cities and towns could not omit this important factor. However, since detailed information of this type was not available, the Division surveyed over 2,500 manufacturers in September, 1960, to locate the place of residence of their employees. Almost 65% responded. The results were scored and included as one of nine determinants for regional orientation.

This booklet presents the "raw data" assembled in the commuting survey for one of ten areas in the Commonwealth. Several booklets were used, because a single presentation would be unwieldly and, in most instances, unnecessary. Practical considerations, as well as existing and proposed regional organizations and study efforts governed the choice of areas, but the cities and towns included in a particular area do not necessarily form a logical or effective planning region. Booklets are available for the following Areas: Berkshire, Pioneer Valley, Central Massachusetts, Merrimack Valley, Southeastern Massachusetts, the Coastal Plain, and Massachusetts Bay, West, North, South and Central.

II. Method

The survey was taken for maximum inclusion of covered manufacturing employees; i. e., those whose employers report to the Massachusetts Division of Employment Security and which fall into the manufacturing categories of the Standard Industrial Classification. Questionnaires were sent to enough manufacturers in a city or town to locate nearly all reported employees. In most instances, this meant a questionnaire to all employers of over twenty-five workers. None were sent to employers of under twenty-five. In large manufacturing centers, however, fifty was the minimum.

SOUTHEASTERN MASSACHUSETTS

Acushnet

Attleboro

Berkley

Dartmouth

Dighton

Fairhaven

Fall River

Freetown

Lakeville

Mansfield

Marion

Mattapoisett

New Bedford

North Attleborough

Norton

Raynham

Rehoboth

Rochester

Seekonk

Somerset

Swansea

Taunton

Westport

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Acushnet

(a) Local Employees' Place of Residence:

Acushnet	117	New Bedford	364	Fairhaven	96
Dartmouth	36	Freetown	20	Rochester	10
Mattapoisett	9	Westport	2	Wareham	1
Taunton	1	Lakeville	1	Total	657

(b) Local Residents' Place of Employment:

New Bedford	585	Acushnet	117	Fairhaven	16
Dartmouth	7	Freetown	5	Fall River	4
Wareham	3	Westport	3	Falmouth	1
				Total	741

(c) Totals:

1. Employees included in survey returns: 657
2. Covered employment in all classifications: 834
3. Covered manufacturing employment: 586
4. % Survey returns to covered manufacturing employment: 112

City of Attleboro

(a) Local Employees' Place of Residence:

Attleboro	3340	Taunton	810	N. Attleboro	748
N orton	368	Mansfield	233	Seekonk	138
Rehoboth	113	Plainville	89	Fall River	37
Raynham	16	Swansea	114	Foxboro	12
Easton	11	Dighton	8	Bellingham	7
Wrentham	7	Franklin	5	Somerset	5
Walpole	5	Brockton	2	Total	7546
Blackstone	2				

(b) Local Residents' Place of Employment:

Attleboro	3340	N. Attleboro	109	Seekonk	36
Norwood	33	Norton	30	Mansfield	47
Plainville	20	Millis	16	Taunton	10
Dighton	9	Walpole	8	Wrentham	8
Foxboro	2	Franklin	2	New Bedford	2
Stoughton	2			Total	3674

(c) Totals:

1. Employees included in survey returns: 7546
2. Covered employment in all classifications: 15386

Attleboro (cont.)

3. Covered manufacturing employment: 13029

4. % Survey returns to covered manufacturing employment: 58

Town of Berkley

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Taunton	42	Dighton	21	Freetown	13
Fall River	9			Total	85

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 29

3. Covered manufacturing employment: 3

4. % Survey returns to covered manufacturing employment: 0

Town of Dartmouth

(a) Local Employees' Place of Residence:

New Bedford	91	Dartmouth	72	Fall River	16
Fairhaven	15	Westport	7	Acushnet	7
Brockton	5	Freetown	4	Mattapoisett	2
Whitman	1	Brookline	1	Norwell	1
Somerville	1	Somerset	1	Rochester	1
				Total	230

(b) Local Residents' Place of Employment:

New Bedford	1014	Dartmouth	72	Fall River	43
Acushnet	36	Fairhaven	32	Westport	11
Dighton	4	Taunton	2	Freetown	2
				Total	1216

(c) Totals:

1. Employees included in survey returns: 230

2. Covered employment in all classifications: 1323

3. Covered manufacturing employment: 241

4. % Survey returns to covered manufacturing employment: 95

Town of Fairhaven

(a) Local Employees' Place of Residence:

Fairhaven	193	New Bedford	207	Dartmouth	32
Acushnet	16	Mattapoisett	9	Freetown	7
Rochester	3	Marion	2	Lakeville	1
Westport	1			Total	472

(b) Local Residents' Place of Employment:

New Bedford	1036	Fairhaven	193	Acushnet	96
Dartmouth	15	Dighton	10	Taunton	4
Middleboro	3	Raynham	2	Wareham	2
Westport	2	Falmouth	1	Fall River	9
				Total	1353

(c) Totals:

1. Employees included in survey returns: 472
2. Covered employment in all classifications: 1432
3. Covered manufacturing employment: 581
4. % Survey returns to covered manufacturing employment: 81

Town of Dighton

(a) Local Employees' Place of Residence:

Dighton	307	Fall River	509	Taunton	284
Somerset	77	New Bedford	47	Swansea	28
Berkley	21	Raynham	19	Middleboro	19
Brockton	18	Rehoboth	16	Fairhaven	10
Westport	10	Attleboro	9	Easton	8
Freetown	8	Boston	8	Milford	6
Seekonk	6	Lakeville	6	Wareham	5
Stoughton	5	Foxboro	5	Watertown	5
Sharon	4	Dartmouth	4	Bridgewater	4
Canton	4			Total	1801

(b) Local Residents' Place of Employment:

Dighton	307	Taunton	81	Fall River	31
Attleboro	8	Norton	4	Somerset	2

Dighton (cont.)

Freetown	2	Bridgewater	4	Total	439

(c) Totals:

1. Employees included in survey returns:	1801
2. Covered employment in all classifications:	2216
3. Covered manufacturing employment:	1615
4. % Survey returns to covered manufacturing employment	112

City of Fall River

(a) Local Employees' Place of Residence:

Fall River	9478	Somerset	645	Swansea	408
New Bedford	165	Westport	373	Dartmouth	43
Dighton	31	Taunton	13	Freetown	17
Berkley	9	Fairhaven	9	Acushnet	4
Seekonk	1	Rehoboth	1	Raynham	1
Brockton	1	Lakeville	1	Norwell	1
				Total	12,020

(b) Local Residents' Place of Employment:

Fall River	9478	Dighton	509	Taunton	194
New Bedford	141	Attleboro	37	Westport	23
Dartmouth	16	Freetown	12	Somerset	5
Raynham	5	Stoughton	42	Bridgewater	13
Easton	10	Quincy	68	Canton	14
				Total	10,567

(c) Totals:

1. Employees included in survey returns:	12,020
2. Covered employment in all calssifications:	37,363
3. Covered manufacturing employment:	23,987
4. % Survey returns to covered manufacturing employment:	50

Town of Freetown

(a) Local Employees' Place of Residence:

Freetown	71	Berkley	13	Fall River	12

Freetown (continued)

New Bedford	9	Taunton	7	Lakeville	6
Acushnet	5	Middleboro	3	Dartmouth	2
Dighton	2	Rochester	1	Somerset	1
Swansea	1			Total	133

(b) Local Residents' Place of Employment:

New Bedford	126	Freetown	71	Middleboro	32
Acushnet	20	Fall River	17	Taunton	12
Dighton	8	Fairhaven	7	Dartmouth	4
Norton	3			Total	300

(c) Totals:

1. Employees included in survey returns: 133
2. Covered employment in all classifications: 361
3. Covered manufacturing employment: 163
4. % Survey returns to covered manufacturing employment: 82

Town of Lakeville

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Middleboro	151	New Bedford	53	Taunton	11
Freetown	6	Dighton	6	Raynham	5
Fairhaven	1	Bridgewater	9	Whitman	3
				Total	245

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 77
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Mansfield

(a) Local Employees' Place of Residence:

Mansfield	575	Foxboro	84	Taunton	165
Norton	57	Attleboro	47	Easton	19

Mansfield (continued)

Sharon	10	Brockton	12	N. Attleboro	5
Franklin	5	Bridgewater	3	Raynham	2
Wrentham	2	Whitman	2	Boston	5
Walpole	8			Total	1035

(b) Local Residents' Place of Employment:

Mansfield	575	Attleboro	233	Walpole	19
Norwood	14	Norton	13	Plainville	13
N. Attleboro	7	Wrentham	5	Foxboro	3
Easton	4			Total:	886

(c) Totals:

1. Employees included in survey returns: 1035
2. Covered employment in all classifications: 1792
3. Covered manufacturing employment: 1263
4. % Survey returns to covered manufacturing employment: 82

Town of Marion

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

New Bedford	51	Marion	12	Fairhaven	2
Raynham	2	Hanover	2	Total	69

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 323
3. Covered manufacturing employment: 11
4. % Survey returns to covered manufacturing employment: 0

Town of Mattapoisett

(a) Local Employees' Place of Residence: No survey response

(b) Local Residents' Place of Employment:

New Bedford	215	Fairhaven	9	Acushnet	9
Dartmouth	2	Wareham	2	Total	239

(c) Totals:

1. Employees included in survey returns: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Matapoisett (cont.)

2. Covered employment in all classifications: 313

3. Covered manufacturing employment: 73

4. % Survey returns to covered manufacturing employment: 0

City of New Bedford

(a) Local Employees' Place of Residence:

New Bedford	9590	Fairhaven	1016	Dartmouth	1014
Acushnet	585	Mattapoisett	215	Fall River	141
Freetown	126	Rochester	86	Westport	60
Lakeville	53	Marion	51	Taunton	51
Middleboro	27	Wareham	17	Brockton	17
Swansea	9	Somerset	7	Bridgewater	4
Berkley	1	Attleboro	2	Dighton	1
				Total	13346

(b) Local Residents' Place of Employment:

New Bedford	9590	Acushnet	364	Fairhaven	207
Fall River	165	Dartmouth	91	Dighton	47
Taunton	38	Middleboro	30	Westport	20
Freetown	9	Wareham	9	Norwood	4
Bridgewater	7	Brockton	6	Quincy	25
				Total	10612

(c) Totals:

1. Employees included in survey returns: 13346

2. Covered employment in all classifications: 39796

3. Covered manufacturing employment: 25219

4. % Survey returns to covered manufacturing employment: 53

Town of North Attleboro

(a) Local Employees' Place of Residence:

N. Attleboro	643	Attleboro	109	Plainville	48
Wrentham	15	Franklin	15	Norton	15
Mansfield	7	Taunton	6	Seekonk	7
Rehoboth	5	Foxborough	3	Blackstone	3
Walpole	2	Freetown	1	Swansea	1
Norfolk	1	Boston	1	Sharon	1
Bellingham	1	Norwood	1	Total	1050

N. Attleboro (continued)

(b) Local Residents' Place of Employment:

Attleboro	748	N. Attleboro	643	Plainville	150
Wrentham	34	Norton	11	Walpole	10
Franklin	5	Mansfield	5	Holliston	3
Seekonk	8	Stoughton	2	Total	1619

(c) Totals:

1. Employees included in survey returns: 1050
2. Covered employment in all classifications: 3646
3. Covered manufacturing employment: 2300
4. % Survey returns to covered manufacturing employment: 46

Town of Norton

(a) Local Employees' Place of Residence:

Norton	131	Taunton	220	Attleboro	30
N. Attleboro	11	Mansfield	13	Raynham	9
Seekonk	4	Sharon	4	Dighton	4
Rehoboth	3	Freetown	3	Foxboro	2
Easton	2			Total	463

(b) Local Residents' Place of Employment:

Attleboro	368	Norton	131	Mansfield	57
N. Attleboro	15	Taunton	6	Plainville	2
Easton	5			Total	569

(c) Totals:

1. Employees included in survey return: 463
2. Covered employment in all classifications: 1160
3. Covered manufacturing employment: 869
4. % Survey returns to covered manufacturing employment: 53

Town of Raynham

(a) Local Employees' Place of Residence:

Middleboro	47	Taunton	15	Lakeville	5
Fall River	5	Raynham	4	Plymouth	4

Raynham (cont.)

Wareham	3	Marion	2	Brockton	2
Fairhaven	2	Somerset	2	E. Bridgewater	2
Carver	2	Avon	1	New Bedford	1
Dartmouth	1	Plainville	1	Boston	1
Bourne	1	Dighton	1	Total	103

(b) Local Residents' Place of Employment:

Taunton	78	Middleboro	21	Dighton	19
Attleboro	16	Norton	9	Raynham	4
Mansfield	2	Bridgewater	3	Easton	3
Stoughton	2			Total	157

(c) Totals:

1. Employees included in survey returns: 103
2. Covered employment in all classifications: 432
3. Covered manufacturing employment: 84
4. % Survey returns to covered manufacturing employment: 123

Town of Rehoboth

(a) Local Employees' Place of Residence: No survey response

(b) Local Residents' Place of Employment:

Attleboro	113	Taunton	19	Dighton	16
N. Attleboro	5	Norton	3	Seekonk	1
				Total	157

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 382
3. Covered manufacturing employment: 117
4. % Survey returns to covered manufacturing employment 0

Town of Rochester

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Rochester (cont.)

New Bedford	86	Acushnet	10	Wareham	5
Fairhaven	3	Dartmouth	1	Total	105

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 63
3. Covered manufacturing employment: 14
4. % Survey returns to covered manufacturing employment 0

Town of Seekonk

(a) Local Employees' Place of Residence:

Attleboro	36	Seekonk	10	N. Attleboro	8
Somerset	2	Rehoboth	1	Total	78

(b) Local Residents' Place of Employment:

Attleboro	138	Seekonk	10	N. Attleboro	7
Dighton	6	Norton	4	Taunton	3
				Total	168

(c) Totals:

1. Employees included in survey returns: 78
2. Covered employment in all classifications: 913
3. Covered manufacturing employment: 179
4. % Survey returns to covered manufacturing employment: 44

Town of Somerset

(a) Local Employees' Place of Residence:

Somerset	41	Fall River	5	Swansea	3
Dighton	2	Middleboro	1	Taunton	1
				Total	54

(b) Local Residents' Place of Employment:

Fall River	645	Dighton	77	Taunton	49

Somerset (cont.)

Somerset	41	Westport	5	Attleboro	5
Middleboro	4	Raynham	2	Seekonk	2
Dartmouth	1	Easton	2	Total	833

(c) Totals:

1. Employees included in survey returns: 54
2. Covered employment in all classifications: 926
3. Covered manufacturing employment: 181
4. % Survey returns to covered manufacturing employment: 30

Town of Swansea

(a) Local Employees' Place of Residence: No survey response

(b) Local Residents' Place of Employment:

Fall River	408	Dighton	28	Taunton	24
Attleboro	14	New Bedford	9	Somerset	3
				Total	486

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 533
3. Covered manufacturing employment: 121
4. % Survey returns to covered manufacturing employment 0

City of Taunton

(a) Local Employees' Place of Residence:

Taunton	1998	Fall River	194	Dighton	81
Raynham	78	Somerset	49	Berkley	42
New Bedford	38	Middleboro	32	Brockton	25
Swansea	24	Rehoboth	19	Freetown	12
Lakeville	11	Attleboro	10	Norton	6
Newton	4	Fairhaven	4	Bridgewater	4
Easton	3	Seekonk	3	Dartmouth	2
Falmouth	2	Wellesley	2	Milton	2
Westport	2	Boston	1	Westwood	1
Lexington	1	Marion	1	Rochester	1
				Total	2755

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Taunton (cont.)

(b) Local Residents' Place of Employment:

Taunton	1998	Attleboro	810	Dighton	284
Norton	220	Middleboro	176	Mansfield	165
New Bedford	51	Raynham	15	Fall River	13
Plainville	7	Freetown	7	N. Attleboro	6
Foxboro	3	Somerset	1	Bridgewater	104
Brockton	49	Stoughton	36	Easton	35
Avon	5	Holbrook	1	Hanson	2
Rockland	4	Quincy	36	Total	4028

(c) Totals:

1. Employees included in survey returns: 2756
2. Covered employment in all classifications: 9981
3. Covered manufacturing employment: 6340
4. % Survey returns to covered manufacturing employment: 43

Town of Westport

(a) Local Employees' Place of Residence:

Westport	27	Fall River	23	New Bedford	20
Dartmouth	11	Somerset	5	Acushnet	3
Fairhaven	2	Milton	1	Total	98

(b) Local Residents' Place of Employment:

Fall River	373	New Bedford	60	Westport	27
Dighton	10	Dartmouth	6	Acushnet	2
Fairhaven	2	Easton	4	Total	485

(c) Totals:

1. Employees included in survey returns: 98
2. Covered employment in all classifications: 551
3. Covered manufacturing employment: 94
4. % Survey returns to covered manufacturing employment: 104

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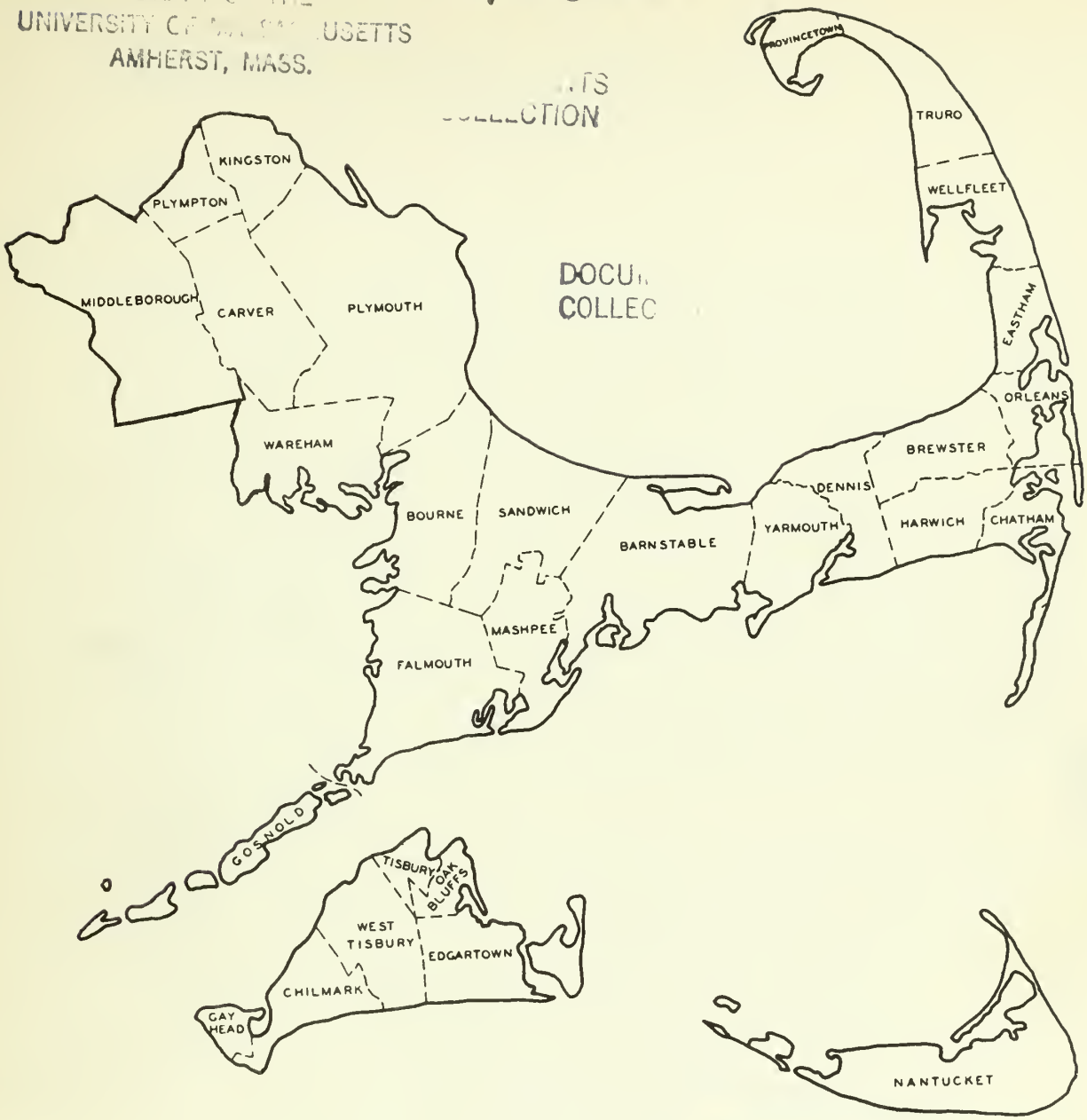

MANUFACTURING COMMUTING SURVEY

[7.] COASTAL PLAIN

Massachusetts Department of Commerce
150 CAUSEWAY STREET
BOSTON 14
LA 3-6640

DIVISION OF PLANNING, MAY, 1963
from a survey taken September, 1960

COMMUTING SURVEY OF COVERED MANUFACTURING EMPLOYEES
September, 1960

I. Introduction

An important indicator of the social and economic influence of a community or a region is the relationship between its labor force and the location of their employment. The commuting patterns of an employee reveal in general terms his income, his skills, and his overall orientation to the economy. From this, the task of judging the optimum location of highways, plants, commercial and other facilities dependent upon easy access, markets, and labor force is facilitated.

Thus, when the Division of Planning was preparing its Study of Areas for Regional Planning, published in December, 1960, it became evident that any attempt to determine the regional orientation of our three hundred fifty-one cities and towns could not omit this important factor. However, since detailed information of this type was not available, the Division surveyed over 2,500 manufacturers in September, 1960, to locate the place of residence of their employees. Almost 65% responded. The results were scored and included as one of nine determinants for regional orientation.

This booklet presents the "raw data" assembled in the commuting survey for one of ten areas in the Commonwealth. Several booklets were used, because a single presentation would be unwieldly and, in most instances, unnecessary. Practical considerations, as well as existing and proposed regional organizations and study efforts governed the choice of areas, but the cities and towns included in a particular area do not necessarily form a logical or effective planning region. Booklets are available for the following Areas: Berkshire, Pioneer Valley, Central Massachusetts, Merrimack Valley, Southeastern Massachusetts, the Coastal Plain, and Massachusetts Bay, West, North, South and Central.

II. Method

The survey was taken for maximum inclusion of covered manufacturing employees; i. e., those whose employers report to the Massachusetts Division of Employment Security and which fall into the manufacturing categories of the Standard Industrial Classification. Questionnaires were sent to enough manufacturers in a city or town to locate nearly all reported employees. In most instances, this meant a questionnaire to all employers of over twenty-five workers. None were sent to employers of under twenty-five. In large manufacturing centers, however, fifty was the minimum.

COASTAL PLAIN

Barnstable

Bourne

Brewster

Carver

Chatham

Chilmark

Dennis

Eastham

Edgartown

Falmouth

Gay Head

Gosnold

Harwich

Kingston

Mashpee

Middleborough

Nantucket

Oak Bluffs

Orleans

Plymouth

Plympton

Provincetown

Sandwich

Tisbury

Truro

Wareham

Wellfleet

West Tisbury

Yarmouth

(29)

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Barnstable

(a) Local Employees' Place of Residence:

Barnstable	126	Sandwich	3	Wareham	1
Yarmouth	29	Bourne	2	Plymouth	1
Falmouth	16	Orleans	2	Provincetown	1
Harwich	8	Mashpee	1	Total	198
Dennis	7	Chatham	1		

(b) Local Residents' Place of Employment:

Barnstable	126	Falmouth	7	Total	133

(c) Totals:

1. Employees included in survey returns: 198
2. Covered employment in all classifications: 4902
3. Covered manufacturing employment: 289
4. % Survey returns to covered manufacturing employment: 69%

Town of Bourne

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Wareham	13	Barnstable	2	Total	27
Falmouth	2	Hanson	10		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 1063
3. Covered manufacturing employment: 125
4. % Survey returns to covered manufacturing employment: 0

Town of Brewster

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Brewster (Continued)

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 199
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Carver

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Middleboro	27	Falmouth	1	Hanson	2
Plymouth	7	Brockton	3	Total	52
Kingston	3	E. Bridgewater	2		
Raynham	2	Bridgewater	5		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 87
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Chatham

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Barnstable	1	Total	1

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 904
3. Covered manufacturing employment: 5
4. % Survey returns to covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Chilmark

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 41
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Dennis

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Barnstable 7 Total 7

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 847
3. Covered manufacturing employment: 13
4. % Survey returns to covered manufacturing employment: 0

Town of Eastham

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 97
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Edgartown

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 414
3. Covered manufacturing employment: 31
4. % Survey returns to covered manufacturing employment: 0

Town of Falmouth

(a) Local Employees' Place of Residence:

Falmouth	40	Acushnet	1	Plymouth	1
Barnstable	7	Carver=	1	Total	53
Bourne	2	Fairhaven	1		

(b) Local Residents' Place of Employment:

Falmouth	40	Taunton	2	Total	58
Barnstable	16				

(c) Totals:

1. Employees included in survey returns: 53
2. Covered employment in all classifications: 2829
3. Covered manufacturing employment 154
4. % Survey returns to covered manufacturing employment: 34%

Town of Gay Head

(a) Local Employees Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 6
3. Covered manufacturing employment: 0

Town of Gay Head (Continued)

4. % Survey returns to covered manufacturing employment: 0

Town of Gosnold

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 7
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Harwich

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Barnstable	8	Total	8

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 1002
3. Covered manufacturing employment: 71
4. % Survey returns to covered manufacturing employment: 0

Town of Kingston

(a) Local Employees' Place of Residence:

Plymouth	127	Plympton	3	Marshfield	1
Kingston	54	Duxbury	2	Brockton	1
Carver	3	Middleboro	1	Total	192

(b) Local Residents' Place of Employment:

Kingston	54	Brockton	8	Hanover	2
Middleboro	22	Whitman	32	Rockland	3
Plymouth	6	Cohasset	4	Hanson	22
Pembroke	2	Quincy	59	Total	214

Kingston (Continued)

(c) Totals:

1. Employees included in survey returns: 192
2. Covered employment in all classifications: 524
3. Covered manufacturing employment: 231
4. % Survey returns to covered manufacturing employment: 83%

Town of Mashpee

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Barnstable	1	Total	1

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 22
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Middleborough

(a) Local Employees' Place of Residence:

Middleborough	1086	Carver	27	Fairhaven	3
Taunton	176	Raynham	21	Whitman	3
Lakeville	151	Kingston	22	Easton	3
Plymouth	82	Wareham	13	West Bridgewater	3
Brockton	55	Halifax	6	Stoughton	2
Bridgewater	55	Plympton	5	Attleboro	1
Freetown	32	Southbridge	4	Total	1784
New Bedford	30	Somerset	4		

(b) Local Residents' Place of Employment:

Middleborough	1086	Bridgewater	89	Canton	2
Raynham	47	Brockton	28	Quincy	41
Taunton	32	E.Bridgewater	13	Braintree	2
New Bedford	27	Whitman	8	Rockland	21
Freetown	3	Stoughton	3	Hanson	7
Somerset	1	Avon	3	Total	1416
Kingston	1	Holbrook	2		

Middleborough (Continued)

(c) Totals:

1. Employees included in survey returns: 1784
2. Covered employment in all classifications: 2958
3. Covered manufacturing employment: 1801
4. % Survey returns to covered manufacturing employment: 99%

Town of Nantucket

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 1014
3. Covered manufacturing employment: 32
4. % Survey returns to covered manufacturing employment: 0

Town of Oak Bluffs

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 219
3. Covered manufacturing employment: 3
4. % Survey returns to covered manufacturing employment: 0

Town of Orleans

(a) Local Employees' Place of Residence: No response to Survey

(b) Local Residents' Place of Employment:

Barnstable 2 Total 2

Orleans (Continued)

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 649

3. Covered manufacturing employment: 29

4. % Survey returns to covered manufacturing employment: 0

Town of Plymouth

(a) Local Employees' Place of Residence:

Plymouth	409	Somerville	2	Total	426
Carver	7	Duxbury	1		
Kingston	6	Needham	1		

(b) Local Residents' Place of Employment:

Plymouth	409	Barnstable	1	Cohasset	4
Kingston	127	Whitman	59	Rockland	11
Middleborough	82	Holbrook	1	Hanover	11
Raynham	4	Brockton	4	Hanson	36
Wareham	2	Bridgewater	4	Total	896
Falmouth	1	Quincy	140		

(c) Totals:

1. Employees included in survey returns: 426

2. Covered employment in all classifications: 3229

3. Covered manufacturing employment: 1029

4. % Survey returns to covered manufacturing employment: 41%

Town of Plympton

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Middleborough	5	Holbrook	1	Hanson	10
Kingston	3	Whitman	2	Total	21

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 13

Plymton (Continued)

3. Covered employment in all classifications: 9

4. % Survey returns to covered manufacturing employment: 0

Town of Provincetown

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Barnstable 1 Total 1

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 1084

3. Covered manufacturing employment: 89

4. % Survey returns to covered manufacturing employment: 0

Town of Sandwich

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Barnstable 3 Total 3

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 1200

3. Covered manufacturing employment: 0

4. % Survey returns to covered manufacturing employment: 0

Town of Tisbury

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 64

Tisbury (Continued)

3. Covered manufacturing employment: 18

4. % Survey returns to covered manufacturing employment: 0

Town of Truro

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place if Employment: None

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 254

3. Covered manufacturing employment: 15

4. % Survey returns to covered manufacturing employment: 0

Town of Wareham

(a) Local Employees' Place of Residence:

Wareham	114	Rochester	5	Freetown	1
Bourne	13	Acushnet	3	Middleborough	1
Marion	12	Plymouth	2	Berkley	1
New Bedford	9	Mattapoisett	2	Carver	1
		Fairhaven	2	Total	166

(b) Local Residents' Place of Employment:

Warcham	114	Raynham	3
New Bedford	17	Barnstable	1
Middleborough	13	Hanson	16
Dighton	5	Quincy	10
		Total	179

(c) Totals:

1. Employees included in survey returns: 166

2. Covered employment in all classifications: 1241

3. Covered manufacturing employment: 373

4. % Survey returns to covered manufacturing employment: 45%

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Wellfleet

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 174
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of West Tisbury

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment: None

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 20
3. Covered manufacturing employment: 1
4. % Survey returns to covered manufacturing employment: 0

Town of Yarmouth

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' place of Employment:

Barnstable	29	Total	29

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 1041
3. Covered manufacturing employment: 44
4. % Survey returns to covered manufacturing employment 0

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MANUFACTURING COMMUTING SURVEY

[8.] MASSACHUSETTS BAY NORTH

Massachusetts Department of Commerce

DIVISION OF PLANNING, MAY, 1963
from a survey taken September, 1960

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COMMUTING SURVEY OF COVERED MANUFACTURING EMPLOYEES
September, 1960

I. Introduction

An important indicator of the social and economic influence of a community or a region is the relationship between its labor force and the location of their employment. The commuting patterns of an employee reveal in general terms his income, his skills, and his overall orientation to the economy. From this, the task of judging the optimum location of highways, plants, commercial and other facilities dependent upon easy access, markets, and labor force is facilitated.

Thus, when the Division of Planning was preparing its Study of Areas for Regional Planning, published in December, 1960, it became evident that any attempt to determine the regional orientation of our three hundred fifty-one cities and towns could not omit this important factor. However, since detailed information of this type was not available, the Division surveyed over 2,500 manufacturers in September, 1960, to locate the place of residence of their employees. Almost 65% responded. The results were scored and included as one of nine determinants for regional orientation.

This booklet presents the "raw data" assembled in the commuting survey for one of ten areas in the Commonwealth. Several booklets were used, because a single presentation would be unwieldly and, in most instances, unnecessary. Practical considerations, as well as existing and proposed regional organizations and study efforts governed the choice of areas, but the cities and towns included in a particular area do not necessarily form a logical or effective planning region. Booklets are available for the following Areas: Berkshire, Pioneer Valley, Central Massachusetts, Merrimack Valley, Southeastern Massachusetts, the Coastal Plain, and Massachusetts Bay, West, North, South and Central.

II. Method

The survey was taken for maximum inclusion of covered manufacturing employees; i. e., those whose employers report to the Massachusetts Division of Employment Security and which fall into the manufacturing categories of the Standard Industrial Classification. Questionnaires were sent to enough manufacturers in a city or town to locate nearly all reported employees. In most instances, this meant a questionnaire to all employers of over twenty-five workers. None were sent to employers of under twenty-five. In large manufacturing centers, however, fifty was the minimum.

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For comparison and control, the number of employees included in the survey return for each city and town were measured against the number of employees reported to the Division of Employment Security from each community. Some employers did not send up-to-date information or may have listed certain "non-covered" employees, and, though a valuable indicator of survey coverage, the comparison may be somewhat inaccurate.

In this booklet, every municipality in the areas described on the cover is listed to show:

(a) The place of residence of those working in each city and town from which information was received.

(b) The place of employment of those residing in each city and town which was indicated in "place of residence" information.

(c) Comparisons and totals:

1. The employees included in the "place of residence" survey.

2. The number of employees reported to the Division of Employment Security as working in all (manufacturing and non-manufacturing) categories of industry, during September, 1960.

3. The number of employees reported to the Division of Employment Security as employed in manufacturing in September, 1960.

4. The percentage of survey returns to reported manufacturing employment.

MASSACHUSETTS BAY

NORTH

Beverly

Danvers

Essex

Gloucester

Hamilton

Ipswich

Lynn

Lynnfield

Manchester

Marblehead

Middleton

Nahant

Peabody

Rockport

Salem

Saugus

Swampscott

Topsfield

Wenham

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

City of Beverly

(a) Local Employees' Place of Residence:

Beverly	1994	Revere	8	Methuen	1
Salem	569	Swampscott	5	Somerville	1
Danvers	302	Boston	4	Winthrop	1
Lynn	224	Georgetown	3	Haverhill	1
Hamilton	176	Chelsea	2	Medford	1
Peabody	167	Newburyport	2	Everett	1
Gloucester	161	Rowley	2	Saugus	1
Ipswich	151	West Newbury	2	Salisbury	1
Wenham	81	North Reading	1	Misc. Mass.	12
Manchester	55	Middleton	1	Misc. N.H.	1
Marblehead	30	Woburn	1	Total	3962

(b) Local Residents' Place of Employment:

Gloucester	4	Danvers	374
Waltham	53	Salem	454
N. Andover	12	Peabody	197
Lawrence	26	Lynn	467
Lowell	6	Wakefield	13
Ipswich	5	Swampscott	9
Everett	9	Saugus	5
Beverly	1994	Marblehead	5
		Total	3633

(c) Totals:

1. Employees included in survey returns: 3962
2. Covered employment in all classifications: 7996
3. Covered manufacturing employment: 5025
4. % Survey returns to covered manufacturing employment: 79

Town of Danvers

(a) Local Employees' Place of Residence:

Danvers	705	Topsfield	31	Malden	1
Salem	665	Reading	12	Newbury	1
Peabody	454	Marblehead	11	Attleboro	1
Beverly	374	Wenham	7	Haverhill	1
Lynn	181	Boston	7	N. Reading	1
Lawrence	118	Essex	4	N. Andover	1
Hamilton	64	Saugus	4	Dracut	1
Gloucester	64	Chelmsford	4	Quincy	1
Middleton	47	Woburn	4	Belmont	1
Newburyport	51	Rowley	3	Rockport	1
Ipswich	29	Wilmington	3	Misc. Mass.	6
Manchester	18	Tewksbury	2	Misc. Me.	1
Everett	1	Swampscott	1	Total	2877

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Danvers (Continued)

(b) Local Residents' Place of Employment:

Lawrence	28	Everett	16	Peabody	204
N. Andover	16	Malden	3	Middleton	22
Lowell	7	Danvers	705	Wakefield	8
Ipswich	2	Lynn	67	Swampscott	7
Andover	1	Beverly	302	Marblehead	5
Medford	2	Salem	257	Saugus	4
				Total	1656

(c) Totals:

1. Employees included in survey returns : 2877
2. Covered employment in all classifications: 5437
3. Covered manufacturing employment: 3746
4. % Survey returns to covered manufacturing employment: 77

Town of Essex

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Gloucester	12	Salem	2
Rockport	3	Danvers	4
Amesbury	1	Lynn	13
Ipswich	1	Total	36

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 240
3. Covered manufacturing employment: 15
4. % Survey returns to covered manufacturing employment: 0

City of Gloucester

(a) Local Employees' Place of Residence:

Gloucester	1454	Salem	2	Melrose	1
Rockport	45	Ipswich	2	Boston	1
Essex	12	Medford	2	Hamilton	1
Beverly	4	Marblehead	1	Peabody	1
Lynn	4	N. Andover	1	Watertown	1
Manchester	3	Andover	1	Everett	1

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Gloucester (Continued)

(a) Local Employees' Place of Residence:

Belmont	1
Malden	1
Lynnfield	2
Newton	1
Mass. Mass	33
Total	1577

(b) Local Residents' Place of Employment:

Gloucester	1454	Danvers	64	Lynn	46
Rockport	55	Salem	34	Middleton	4
Ipswich	2	Peabody	13	Marblehead	1
Beverly	161	Wakefield	6	Total	1835

(c) Totals:

1. Employees included in survey returns:	1577
2. Covered employment in all classifications:	7195
3. Covered manufacturing employment:	2772
4. % Survey returns to covered manufacturing employment:	57

Town of Hamilton

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Newburyport	2	Salem	43
Ipswich	2	Lynn	93
Beverly	176	Peabody	22
Danvers	64	Total	402

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	270
3. Covered manufacturing employment:	0
4. % Survey returns to covered manufacturing employment:	0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Ipswich

(a) Local Employees' Place of Residence:

Ipswich	76	Topsfield	2
Newburyport	5	Wenham	2
Beverly	5	Amesbury	1
Rowley	4	Essex	1
Marblehead	3	Manchester	1
Gloucester	2	Newbury	1
Danvers	2	Newton	1
Hamilton	2	Salem	1
		Total	109

(b) Local Residents' Place of Employment:

Gloucester	2	Salem	30
Ipswich	76	Peabody	21
Newburyport	12	Danvers	29
N. Andover	9	Wakefield	6
Wilmington	1	Lynn	62
Salisbury	1	Marblehead	1
Beverly	151	Swampscott	1
		Total	402

(c) Totals:

1. Employees included in survey returns: 109
2. Covered employment in all classifications: 1649
3. Covered manufacturing employment: 861
4. % Survey returns to covered manufacturing employment: 13

City of Lynn

(a) Local Employees' Place of Residence:

Lynn	2450	Chelsea	22	Gr. Haverhill	127
Gr. Lynn	5739	Everett	22	Manchester	24
Salem	182	Hamilton	93	Ipswich	62
Gr. Salem	1117	Malden	10	Amesbury	24
Peabody	814	Medford	10	Andover	2
Saugus	119	Middleton	61	Groveland	1
Swampscott	158	Somerville	8	Nahant	41
Revere	71	Topsfield	94	Newbury	16
Marblehead	65	Wakefield	12	Newburyport	42
Danvers	67	Georgetown	4	Rowley	42
Beverly	467	Gloucester	46	Winthrop	4
Boston	62	Melrose	6	Wenham	37
Gr. Boston	2304	Boxford	33	W. Newbury	2
Lynnfield	33	Haverhill	3	Gr. Lawrence	182

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Lynn (Continued)

(a) Local Employees' Place of Residence:

Acton	2	Marshfield	1	Westford	1
Newton	2	Marlborough	1	Whitman	3
Boxboro	1	Quincy	15	Wilmington	49
Charlisle	1	Hull	1	Misc. Mass.	52
Brockton	9	Norwood	3	Misc. R. I.	1
Concord	1	Randolph	3	Misc. N. H.	85
Essex	13	Rockport	14	Misc. Conn.	7
Framingham	3	Gr. Lowell	159	Tot. Out of State	93
Croton	1	Salisbury	8	Total	15126
Holbrook	3	Stoughton	2		

(b) Local Residents' Place of Employment:

Quincy	39	Everett	112	Revere	1
Gloucester	4	Chelsea	58	Lynn	8189
Boston	141	Woburn	34	Wakefield	693
Cambridge	66	Malden	29	Salem	595
Waltham	12	Winchester	9	Peabody	211
Andover	154	Wayland	15	Danvers	181
N. Andover	15	Bedford	13	Saugus	61
Lowell	10	Stoneham	6	Beverly	224
Haverhill	4	Medford	4	Swampscott	53
Newburyport	4	Burlington	3	Marblehead	6
Methuen	2	Arlington	3	Total	10954
Wilmington	2	Melrose	1		

(c) Totals:

1. Employees included in survey returns: 15126
2. Covered employment in all classifications: 38696
3. Covered manufacturing employment: 23404
4. % Survey returns to covered manufacturing employment: 65

Town of Lynnfield

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Gloucester	2	Medford	2
Wilmington	4	Melrose	1
Andover	2	Revere	1
Malden	18	Lynn	33
Everett	11	Wakefield	25
Reading	8	Peabody	6
Chelsea	7	Salem	6
Winchester	3	Saugus	3
		Total	132

COMMUTING PATTERNS OF COVERD MANUFACTURING EMPLOYEES

Lynnfield (Continued)

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications 764
3. Covered manufacturing employment: 11
4. % Survey returns to covered manufacturing employment: 0

Town of Manchester

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Gloucester	3	Beverly	55	Wakefield	5
Somerville	2	Salem	19	Lynn	24
Ipswich	1	Danvers	18	Total	127

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 361
3. Covered manufacturing employment: 47
4. % Survey returns to covered manufacturing employment: 0

Town of Marblehead

(a) Local Employees' Place of Residence:

Marblehead	35	Georgetown	2
Salem	11	Peabody	2
Swampscott	6	Gloucester	1
Lynn	6	Ipswich	1
Beverly	5	Saugus	1
Danvers	5	Total	75

(b) Local Residents' Place of Employment:

Lowell	3	Peabody	47
Ipswich	3	Marblehead	35
Newburyport	3	Beverly	30
Andover	1	Danvers	11
Chelsea	9	Swampscott	10
Lynn	65	Wakefield	5
Salem	56	Total	278

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Marblehead (Continued)

(c) Totals:

1. Employees included in survey returns:	75
2. Covered employment in all classifications:	1603
3. Covered manufacturing employment:	309
4. % Survey returns to covered manufacturing employment:	24

Town of Middleton

(a) Local Employees' Place of Residence:

Middleton	50	Woburn	5
Danvers	22	Wakefield	4
North Reading	12	Gloucester	4
Peabody	9	Lawrence	4
Ipswich	6	Misc. Mass.	16
		Total	162

(b) Local Residents' Place of Employment:

		Lynn	61
Middleton	50	Swampscott	2
Danvers	47	Total	222
Salem	30		
Peabody	32		

(c) Totals:

1. Employees included in survey returns:	162
2. Covered employment in all classifications:	433
3. Covered manufacturing employment:	221
4. % Survey returns to covered manufacturing employment:	73

Town of Nahant

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Everett	6	Salem	5
Revere	1	Swampscott	1
Lynn	41	Total	54

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	137

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Nahant (Continued)

(c) Totals:

3. Covered manufacturing employment: 4

4. % Survey returns to covered manufacturing employment: 0

City of Peabody

(a) Local Employees' Place of Residence:

Peabody	1259	Woburn	16	Wakefield	3
Salem	675	Gloucester	13	Reading	3
Lynn	211	Brookline	6	Medford	2
Danvers	204	Everett	6	Revere	2
Beverly	197	Melrose	6	Lawrence	2
Marblehead	47	Lynnfield	6	Lexington	2
Middleton	32	Malden	5	Topsfield	2
Hamilton	22	Saugus	4	Chelsea	2
Ipswich	21	Topsfield	4	Nahant	2
Swampscott	18	Boxford	3	Misc. Mass.	31
Boston	27	Haverhill	3	Misc. O. S.	3
				Total	2839

(b) Local Residents' Place of Employment:

Boston	26	Watertown	5	Danvers	454
Lowell	9	Reading	4	Wakefield	31
N. Andover	8	Medford	2	Middleton	9
Wilmington	2	Melrose	2	Swampscott	6
Newburyport	1	Peabody	1259	Marblehead	2
Everett	26	Salem	474	Saugus	4
Chelsea	12	Beverly	167	Newton	11
Malden	11	Lynn	814	Total	3339

(c) Totals:

1. Employees included in survey returns: 2839

2. Covered employment in all classifications: 8902

3. Covered manufacturing employment: 4283

4. % Survey returns to covered manufacturing employement: 66

Town of Rockport

(a) Local Employees' Place of Residence:

Rockport	52	Essex	3
Gloucester	55	Total	110

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Rockport (Continued) .

(b) Local Residents' Place of Employment:

Rockport	52	Lynn	14
Gloucester	47	Total	113

(c) Totals:

1. Employees included in survey returns: 110

2. Covered employment in all classifications: 783

3. Covered manufacturing employment: 169

4. % Survey returns to covered manufacturing employment: 65

City of Salem

(a) Local Employees' Place of Residence:

Salem	1620	Manchester	19	Nahant	5
Lynn	595	Revere	18	Boxford	4
Beverly	454	Malden	17	Medford	4
Peabody	474	Melrose	16	Winchester	3
Danvers	257	Reading	15	Newbury	2
Swampscott	61	Newburyport	12	Groveland	2
Marblehead	56	Stoneham	8	Essex	2
Hamilton	43	Rowley	7	Amesbury	1
Saugus	38	Haverhill	7	Lawrence	24
Gloucester	34	Chelsea	7	Lowell	7
Ipswich	30	Georgetown	7	Methuen	7
Wenham	26	Everett	7	Wilmington	2
Middleton	30	Burlington	6	Misc. Mass.	82
Boston	23	Lynnfield	6	Misc. N.H.	6
Wakefield	23	Andover	5	Total	4200
Topsfield	22	Somerville	5		

(b) Local Residents' Place of Employment:

Gloucester	2	Everett	13	Swampscott	27
Boston	51	Salem	1620	Wakefield	16
Andover	77	Peabody	675	Saugus	2
Lawrence	26	Danvers	665	Marblehead	11
Wilmington	2	Beverly	569	Total	5056
Ipswich	1	Lynn	1299		

(c) Totals:

1. Employees included in survey returns: 4200

2. Covered employment in all classifications; 13620

3. Covered manufacturing employment: 6447

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Salem (Continued)

(c) Totals:

4. % Survey returns to covered manufacturing employees: 6%

Town of Saugus

(a) Local Employees' Place of Residence:

Saugus	64	Revere	6	Melrose	3
Lynn	61	Beverly	5	Somerville	2
Malden	10	Danvers	4	Medford	2
Everett	8	Lynnfield	3	Salem	2
Peabody	7	Winchester	3	Boston	2
				Total	196

(b) Local Residents' Place of Employment:

Quincy	12	Chelsea	13	Lynn	119
Somerville	8	Medford	12	Saugus	64
N. Andover	9	Melrose	9	Salem	38
Wilmington	4	Revere	5	Danvers	4
Lowell	3	Winchester	3	Swampscott	5
Everett	76	Burlington	4	Marblehead	1
Malden	49	Wakefield	189	Peabody	4
				Total	631

(c) Totals:

1. Employees included in survey returns: 196

2. Covered employment in all classifications: 2372

3. Covered manufacturing employment: 510

4. % Survey returns to covered manufacturing employment: 38

Town of Swampscott

(a) Local Employees' Place of Residence :

Lynn	53	Peabody	6	Ipswich	1
Salem	27	Saugus	5	Medford	1
Swampscott	20	Boston	3	Melrose	1
Marblehead	10	Lowell	2	Nahant	1
Beverly	9	Middleton	2	Misc. Mass.	3
Danvers	7	Hardwick	1	Total	152

(b) Local Residents' Place of Employment:

Everett	9	Salem	61	Wakefield	10
Chelsea	6	Swampscott	20	Marblehead	6
Lynn	158	Peabody	18	Beverly	5
				Total	293

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

(c) Totals:

1. Employees included in survey returns: 152
2. Covered employment in all classifications: 1523
3. Covered manufacturing employment: 150
4. % Survey returns to covered manufacturing employment: 101

Town of Topsfield

(a) Local Employees' Place of Residence: No Response to Survey

(b) Local Residents' Place of Employment:

Ipswich	2	Lynn	94
Danvers	31	Peabody	4
Salem	22	Total	153

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 292
3. Covered manufacturing employment: 93
4. % Survey returns to covered manufacturing employment: 0

Town of Wenham

(a) Local Employees' Place of Residence: Too Few for Survey

(b) Local Residents' Place of Employment:

Ipswich	2	Wakefield	4
Beverly	81	Lynn	37
Salem	26	Total	157
Danvers	7		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 126
3. Covered manufacturing employment: 23
4. % Survey returns to covered manufacturing employment: 0

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[9.] MERRIMACK VALLEY

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MERRIMACK VALLEY

Amesbury

Andover

Billerica

Boxford

Chelmsford

Dracut

Dunstable

Georgetown

Groveland

Haverhill

Lawrence

Lowell

Merrimac

Methuen

Newbury

Newburyport

North Andover

Pepperell

Rowley

Salisbury

Tewksbury

Tyngsborough

Westford

West Newbury

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Amesbury

(a) Local Employees' Place of Residence:

Amesbury	912	Lawrence	1	Plaistow	9
Newburyport	204	Essex	1	S. Hampton	17
Salisbury	61	Peabody	1	Misc. N. H.	70
Haverhill	61	North Andover	1	Total N. H.	139
Merrimac	40	Misc. Mass.	9	Total Me.	2
West Newbury	8	Total Mass.	1303	Total O. S.	141
Groveland	4	Seabrook	43	Total	1444

(b) Local Residents' Place of Employment:

Amesbury	912	Salisbury	23	Ipswich	1
N. Andover	254	Lawrence	18	Lynn	24
Newburyport	159	Merrimac	4	Total	1457
Haverhill	59	Lowell	3		

(c) Totals:

1. Employees included in survey returns:	1444
2. Covered employment in all classifications:	2850
3. Covered manufacturing employment	2061
4. % Survey returns to covered manufacturing employment	70

Town of Andover

(a) Local Employees' Place of Residence:

Andover	716	Wilmington	3	Marblehead	1
Lawrence	2443	Billerica	2	Misc. Mass.	2751
Lowell	783	Boston	2	Total Mass.	8501
Methuen	771	Lynnfield	2	Salem	38
Haverhill	271	Malden	1	Atkinson	1
N. Andover	242	Danvers	1	Misc. N. H.	2
Dracut	171	Boxford	1	Total N. H.	41
Lynn	154	Somerville	1	Total O. S.	41
Tewksbury	96	Rowley	1	Total	8542
Salem	77	Swampscott	1		
Reading	9	Groveland	1		

(b) Local Resident's Place of Employment:

Maynard	7	Lowell	21	Stoneham	3
Andover	716	Chelmsford	8	Everett	6
N. Andover	331	Methuen	13	Concord	5
Lawrence	290	Dracut	3	Wakefield	12
Wilmington	141	Medford	2	Salem	5
				Total	1563

(c) Totals:

1. Employees included in survey returns: 854
2. Covered employment in all classifications: 10967
3. Covered manufacturing employment 9234
4. % Survey returns to covered manufacturing employment 93

Town of Billerica

(a) Local Employees' Place of Residence:

Lowell	231	Tyngsboro	4	Salem	1
Billerica	60	Tewksbury	15	Nashua	8
Chelmsford	25	Somerville	2	Misc. N. H.	3
Dracut	21	Reading	2	Total N. H.	12
Boston	8	Burlington	2	Total O. S.	12
Westford	4	Pepperell	1	Total	400
Methuen	4	Misc. Mass.	6		
Cambridge	3	Total Mass.	388		

(b) Local Residents' Place of Employment

Waltham	67	Andover	2	Watertown	12
Cambridge	20	Maynard	7	Winchester	7
Lowell	228	Littleton	5	Everett	6
Somerville	11	Acton	4	Arlington	3
Billerica	60	Wakefield	7	Lexington	3
Wilmington	8	Woburn	63	Reading	6
Chelmsford	4	Bedford	45	Newton	7
Dracut	3	Burlington	112	Total	690

(c) Totals:

1. Employees included in survey returns: 400
2. Covered employment in all classifications: 1650
3. Covered manufacturing employment: 788
4. % Survey returns to covered manufacturing employment: 51

Town of Boxford

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment

N. Andover	23	Wakefield-	4	Peabody	3
Andover	1	Salem	4	Total	40
Haverhill	2	Lynn	3		

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 74

3. Covered manufacturing employment: 0

4. % Survey returns to covered manufacturing employment: 0

Town of Chelmsford

(a) Local Employees' Place of Residence

Lowell	421	Billerica	4	Wilmington	1
Chelmsford	147	Lexington	3	Misc. Mass.	0
Dracut	46	Burlington	2	Total Mass.	731
Lawrence	41	Arlington	2	Nashua	3
Westford	25	Bedford	1	Total N. H.	3
Tyngsboro	13	Lynn	1	Total O. S.	3
Andover	8	Haverhill	1	Total	734
Methuen	7	Cambridge	1		
Tewksbury	6	Groton	1		

(b) Local Residents' Place of Employment

Waltham	16	Westford	44	Concord	22
Lowell	526	Acton	42	Bedford	20
Chelmsford	147	Littleton	31	Burlington	11
Billerica	25	Maynard	13	Newton	11
Dracut	10	Pepperell	5	Total	930
Lawrence	6	Townsend	1		

(c) Totals:

1. Employees included in survey returns: 734

2. Covered employment in all classifications: 2231

3. Covered manufacturing employment: 929

4. % Survey returns to covered manufacturing employment: 79

Town of Dracut

(a) Local Employees' Place of Residence:

Lowell	191	Tyngsboro	3	Misc. Mass.	0
Dracut	113	Billerica	3	Total Mass.	383
Lawrence	33	Tewksbury	2	Misc. N. H.	9
Methuen	12	Westford	1	Total N. H.	9
Chelmsford	10	Groveland	1	Total O. S.	9
N. Andover	9	Dunstable	1	Total	392
Andover	3	Fitchburg	1		

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

(b) Local Resident's Place of Employment:

Waltham	21	N. Andover	31	Littleton	14
Lowell	740	Lawrence	22	Maynard	9
Andover	171	Billerica	21	Acton	8
Dracut	113	Methuen	7	Wakefield	7
Chelmsford	46	Wilmington	2	Burlington	42
				Total	1254

(c) Totals:

1. Employees included in survey returns: 392
2. Covered employment in all classifications: 1202
3. Covered manufacturing employment 463
4. % Survey returns to covered manufacturing employment 85

Town of Dunstable

(a) Local Employees Place of Residence: Too few for survey

(b) Local Residents' Place of Employment

Lowell	3	Pepperell	17	Total	20

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications 34
3. Covered manufacturing employment 0
4. % Survey returns to covered manufacturing employment 0

Town of Georgetown

(a) Local Employees' Place of Residence:

Georgetown	30	Newburyport	5	Groveland	1
Haverhill	8	Newbury	3	Rowley	1
		Total Mass.	48	Total	48

(b) Local Residents' Place of Employment:

N. Andover	83	Newburyport	5	Beverly	3
Georgetown	30	Salem	7	Total	149
Haverhill	17	Lynn	4		

(c) Totals:

1. Employees included in survey returns: 48

2. Covered employment in all classifications: 426

3. Covered manufacturing employment 135

4. % Survey returns to covered manufacturing employment 36

Town of Groveland

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment

N. Andover	152	Methuen	3	Georgetown	1
Haverhill	45	Amesbury	4	Andover	1
Newburyport	9	Merrimac	1	Salem	2
				Total	218

(c) Totals

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 221

3. Covered manufacturing employment 55

4. % Survey returns to covered manufacturing employment 0

City of Haverhill

(a) Local Employees' Place of Residence:

Haverhill	3019	Newbury	3	Danville	9
Lawrence	132	Boxford	2	Plaistow	54
Merrimac	65	Malden	2	Exeter	7
Methuen	52	Lexington	1	Atkinson	13
Amesbury	59	Winchester	1	Kingston	6
Groveland	45	Salem	1	S. Hampton	4
Newburyport	36	Rowley	1	Hampstead	5
W. Newbury	17	Lynnfield	1	Misc. N. H.	121
Georgetown	17	Andover	1	Total N. H.	240
Lowell	14	Misc. Mass.	4	Total O. S.	241
N. Andover	9	Total Mass.	3495	Total	3736
Salisbury	9	Newton	12		
Lynn	4	Salem	9		

(b) Local Residents' Place of Employment:

Somerville	2	Lowell	68	Wakefield	6
Haverhill	3019	Amesbury	61	Salem	7
N. Andover	2355	Methuen	23	Lynn	3
Andover	271	Salisbury	9	Peabody	3
Lawrence	166	Merrimac	9	Total	6082
Newburyport	72	Georgetown	8		

(c) Totals

1. Employees included in survey returns:	3746
2. Covered employment in all classifications	14673
3. Covered manufacturing employment	9188
4. % Survey returns to covered manufacturing employment	41

City of Lawrence

(a) Local Employees' Place of Residence

Lawrence	3581	Lexington	2	W. Newbury	1
Methuen	1214	Pepperell	2	Arlington	1
Andover	290	Newton	1	Burlington	1
N. Andover	247	Tyngsboro	1	Dunstable	1
Haverhill	166	Stoneham	2	Malden	1
Lowell	112	Westford	2	Medford	1
Danvers	28	Woburn	2	Wayland	1
Beverly	26	Groveland	2	Wilmington	1
Dracut	22	Lynnfield	2	Misc. Mass.	107
Amesbury	18	Marblehead	2	Total Mass.	5914
Salem	26	Peabody	2	Salem	231
Reading	11	Swampscott	2	Manchester	8
Tewksbury	7	Boxford	1	S. Hampton	1
N. Reading	6	Georgetown	1	Derry	21
Chelmsford	6	Gloucester	1	Misc. N. H.	111
Merrimac	5	Lynn	1	Total N. H.	372
Newburyport	3	Middleton	1	Misc. O. S.	5
Winchester	3	Rockport	1	Total O. S.	377
				Total	6291

(b) Local Residents' Place of Employment:

Quincy	12	Methuen	317	Reading	3
Stow	4	Lowell	313	Medford	13
Westford	2	Haverhill	132	Stoneham	10
Waltham	19	Chelmsford	41	Wakefield	24
Lawrence	3581	Dracut	33	Salem	24
Andover	2443	Bedford	13	Danvers	118
Wilmington	422	Woburn	42	Middleton	4
N. Andover	2266	Everett	9	Total	9845

(c) Totals:

1. Employees included in survey returns:	6220
2. Covered employment in all classifications:	24799
3. Covered manufacturing employment:	14259
4. % Survey returns to covered manufacturing employment	44

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

City of Lowell

(a) Local Employees' Place of Residence:

Lowell	6087	Littleton	9	Arlington	6
Dracut	740	Danvers	7	Amesbury	3
Chelmsford	526	Peabody	9	Marblehead	3
Billerica	228	Beverly	6	Saugus	3
Tewksbury	227	Ashby	6	Misc. Mass.	129
Lawrence	313	Cambridge	6	Total Mass.	8811
Methuen	130	Somerville	5	Pelham	55
Haverhill	68	Newton	5	Nashua	26
Tyngsboro	68	N. Andover	4	Plaistow	1
Westford	89	Burlington	4	Hudson	8
Wilmington	37	Melrose	4	S. Hampton	1
Andover	21	Reading	4	Misc. N. H.	75
Newburyport	12	Woburn	3	Total N. H.	166
Lynn	10	Waltham	3	Misc. O.S.	13
Lexington	11	Pepperell	3	Total O. S.	179
Medford	10	Malden	3	Total	8990
Winchester	7	Dunstable	3		

(b) Local Residents' Place of Employment

Waltham	106	Littleton	106	Burlington	238
Cambridge	16	Maynard	73	Framingham	65
Lowell	6087	Westford	58	Woburn	80
Andover	783	Gardner	23	Bedford	38
Dracut	191	Pepperell	16	Wayland	23
N. Andover	128	Fitchburg	7	Natick	8
Lawrence	112	Stow	3	Lexington	2
Chelmsford	421	Millis	12	Everett	8
Wilmington	100	Ayer -	2	Winchester	15
Methuen	27	Quincy	15	Stoneham	12
Billerica	231	Wakefield	31	Gr. Lynn	159
Acton	153	Salem	7	Total	9356

(c) Totals:

1. Employees included in survey returns:	8986
2. Covered employment in all classifications	29377
3. Covered manufacturing employment	17918
4. % Survey returns to covered manufacturing employment	50

Town of Merrimac

(a) Local Employees' Place of Residence:

Merrimac	12	Amesbury	4	Newbury	2
Haverhill	9	Salisbury	1	Groveland	1

Newburyport	1	Plaistow	2	Total O. S.	3
Misc. Mass.	0	Newton	1	Total	33
Total Mass.	30	Total N. H.	3		

(b) Local Residents' Place of Employment:

N. Andover	146	Merrimac	12	Total	275
Haverhill	65	Newburyport	7		
Amesbury	40	Lawrence	5		

(c) Totals:

1. Employees included in survey returns: 32
2. Covered employment in all classifications: 383
3. Covered manufacturing employment: 154
4. % Survey returns to covered manufacturing employment 21

Town of Methuen

(a) Local Employees' Place of Residence:

Methuen	292	Medford	4	Total Mass.	718
Lawrence	317	Groveland	3	Salem	42
Haverhill	23	Lynn	2	Derry	9
Andover	13	Malden	1	Manchester	12
N. Andover	11	Boston	1	Misc. N. H.	8
Lowell	27	Tewksbury	1	Total N. H.	71
Somerville	11	Chelmsford	1	Total O. S.	71
Dracut	7	Misc. Mass.	4	Total	789

(b) Local Residents' Place of Employment

Stow	2	Wilmington	165	Billerica	4
Lawrence	1214	Lowell	130	Wakefield	3
N. Andover	961	Haverhill	52	Salem	7
Andover	771	Dracut	12	Total	3620
Methuen	292	Chelmsford	7		

(c) Totals:

1. Employees included in survey returns: 785
2. Covered employment in all classifications: 2438
3. Covered manufacturing employment: 891
4. % Survey returns to covered manufacturing employment: 88

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Newbury

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment:

Newburyport	62	Haverhill	3	Salem	2
N. Andover	18	Merrimac	2	Lynn	91
Georgetown	3	Ipswich	1	Total	182

(c) Totals:

1. Employees included in survey returns	0
2. Covered employment in all classifications:	141
3. Covered manufacturing employment	39
4. % Survey returns to covered manufacturing employment	0

City of Newburyport

(a) Local Employees' Place of Residence

Newburyport	958	Lynn	4	Salem	1
Salisbury	93	Hamilton	2	Newton	7
Amesbury	159	Medford	2	Plaistow	9
Haverhill	72	Marblehead	2	Portsmouth	7
Newbury	62	Swampscott	1	Seabrook	42
Ipswich	12	Worcester	1	S. Hampton	23
Rowley	11	Peabody	1	Misc. N. H.	6
Groveland	9	Gloucester	1	Total N. H.	103
W. Newbury	8	Salem	1	Misc. O. S.	3
Merrimac	7	Misc. Mass.	0	Total O. S.	106
Boston	7	Total Mass.	1418	Total	1524
Georgetown	5	Smithtown	8		

(b) Local Residents' Place of Employment:

Newburyport	958	Lowell	12	Beverly	2
Amesbury	204	Ipswich	5	Lynn	42
N. Andover	135	Lawrence	3	Salem	12
Haverhill	36	Merrimac	1	Wakefield	5
Salisbury	31	Georgetown	5	Danvers	51
				Total	1502

(c) Totals:

1. Employees included in survey returns	1524
2. Covered employment in all classifications	3716
3. Covered manufacturing employment	2348

4. % Survey returns to covered manufacturing employment 65

Town of North Andover

(a) Local Employees' Place of Residence

North Andover	689	Reading	25	Salem	271
Haverhill	2355	Boxford	23	Hamstead	54
Lawrence	2266	Tewksbury	23	Plaistow	165
Methuen	961	Newbury	18	Newton	55
Andover	331	Danvers	16	Atkinson	53
Amesbury	254	Lynn	15	Westville	45
Groveland-	152	Beverly	12	S. Hampton	15
Merrimac	146	Saugus	9	Derry	30
Newburyport	135	Ipswich	9	Misc. N. H.	188
Lowell	128	Chelsea	8	Total N. H.	910
Georgetown	83	Peabody	8	Total O. S.	910
West Newbury	44	Misc, Mass.	142	Total	8820
Dracut	35	Total Mass.	7910		
Salisbury	27	Kingston	54		

(b) Local Residents' Place of Employment

N. Andover	689	Dracut	9	Reading	3
Lawrence	247	Methuen	11	Total	1296
Andover	242	Haverhill	9		
Wilmington	82	Lowell	4		

(c) Totals:

1. Employees included in survey returns 8820
2. Covered employment in all classifications 10964
3. Covered manufacturing employment 9871
4. % Survey returns to covered manufacturing employment 89

Town of Pepperell

(a) Local Employees' Place of Residence

Pepperell	478	Chelmsford	5	Total Mass.	626
Townsend	36	Ashby	4	Nashua	104
Groton	22	Shirley	4	Brookline	18
Dunstable	17	Tyngsboro	4	Hollis	18
Lowell	16	Littleton	3	Milford	12
Ayer	11	Lunenburg	2	Misc N. H.	19
Westford	8	Acton	1	Total N. H.	171
Fitchburg	7	Brockton	1	Total O. S.	171
Dracut	7	Misc. Mass.	0	Total	797

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

(b) Local Residents' Place of Employment:

Lowell	3	Littleton	12	Total	565
Billerica	1	Fitchburg	11		
Pepperell	478	Westford	8		
Groton	30	Shirley	6		
Ayer	13	Townsend	3		

(c) Totals:

1. Employees included in survey returns:	797
2. Covered employment in all classifications	960
3. Covered manufacturing employment	773
4. % Survey returns to covered manufacturing employment	103

Town of Rowley

(a) Local Employees' Place of Residence. Too few for survey

(b) Local Residents' Place of Employment

Newburyport	11	Ipswich	4	Danvers	3
Salisbury	4	Everett	4	Salem	7
Andover	1	Lynn	42	Total	79
Georgetown	1	Beverly	2		

(c) Totals:

1. Employees included in survey returns	0
2. Covered employment in all classifications	204
3. Covered manufacturing employment	20
4. % Survey returns to covered manufacturing employment	0

Town of Salisbury

(a) Local Employees' Place of Residence:

Salisbury	36	Ipswich	1	Total N. H.	25
Newburyport	31	Total Mass.	104	Total O. S.	25
Amesbury	23	Seabrook	22	Total	129
Haverhill	9	S. Hampton	2		
Rowley	4	Misc. N. H.	1		

(b) Local Residents' Place of Employment

Quincy	13	Newburyport	93	Amesbury	61

Salisbury	36	Haverhill	9	Total	248
N. Andover	27	Merrimac	1		
Lynn	8				

(c) Totals:

1. Employees included in survey returns	129
2. Covered employment in all classifications	820
3. Covered manufacturing employment	180
4. % Survey returns to covered manufacturing employment	72

Town of Tewksbury

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment

Waltham	62	Dracut	2	Reading	10
Somerville	4	Chelmsford	6	Burlington	10
Lowell	227	Westford	5	Bedford	16
Wilmington	116	Wakefield	100	Concord	2
Andover	96	Danvers	2	Newton	13
N. Andover	23	Winchester	3	Total	756
Billerica	15	Medford	8		
Lawrence	7	Woburn	8		

(c)	1. Employees included in survey returns	0
	2. Covered employment in all classifications:	607
	3. Covered manufacturing employment	105
	4. % Survey returns to covered manufacturing employment	0

Town of Tyngsboro

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment

Lowell	68	Dracut	3	Pepperell	4
Chelmsford	13	Westford	6	Acton	1
Billerica	4	Littleton	4	Total	103

(c) Totals:

1. Employees included in survey returns	0
2. Covered employment in all classifications	166

3. Covered manufacturing employment 2

4. % Survey returns to covered manufacturing employment 0

Town of Westford

(a) Local Employees' Place of Residence:

Westford	247	Pepperell	8	Lawrence	2
Chelmsford	44	Melrose	7	Harvard	1
Lowell	58	Wilmington	7	Total Mass.	486
Wakefield	30	Tyngsboro	6	Pelham	1
Groton	26	Stoneham	6	Nashua	1
Reading	11	Medford	5	Misc. N. H.	35
Malden	9	Tewksbury	5	Total N. H.	37
Littleton	9	Somerville	5	Total O. S.	37
				Total	523

(b) Local Residents' Place of Employment

Lowell	89	Littleton	83	Bedford	12
Chelmsford	25	Maynard	33	Lynn	1
Billerica	4	Ayer	18	Total	447
Westford	247	Groton	12		
Acton	115	Pepperell	8		

(c) Totals:

1. Employees included in survey returns 523

2. Covered employment in all classifications 1158

3. Covered manufacturing employment 863

4. % Survey returns to covered manufacturing employment 61

Town of West Newbury

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' place of Employment:

N. Andover	44	Newburyport	8	Lynn	2
Haverhill	17	Amesbury	8	Beverly	2
				Total	81

(c) Totals:

1. Employees included in survey returns 0

2. Covered employment in all classifications 23

3.	Covered manufacturing employment	2
4.	% Survey returns to covered manufacturing employment	0

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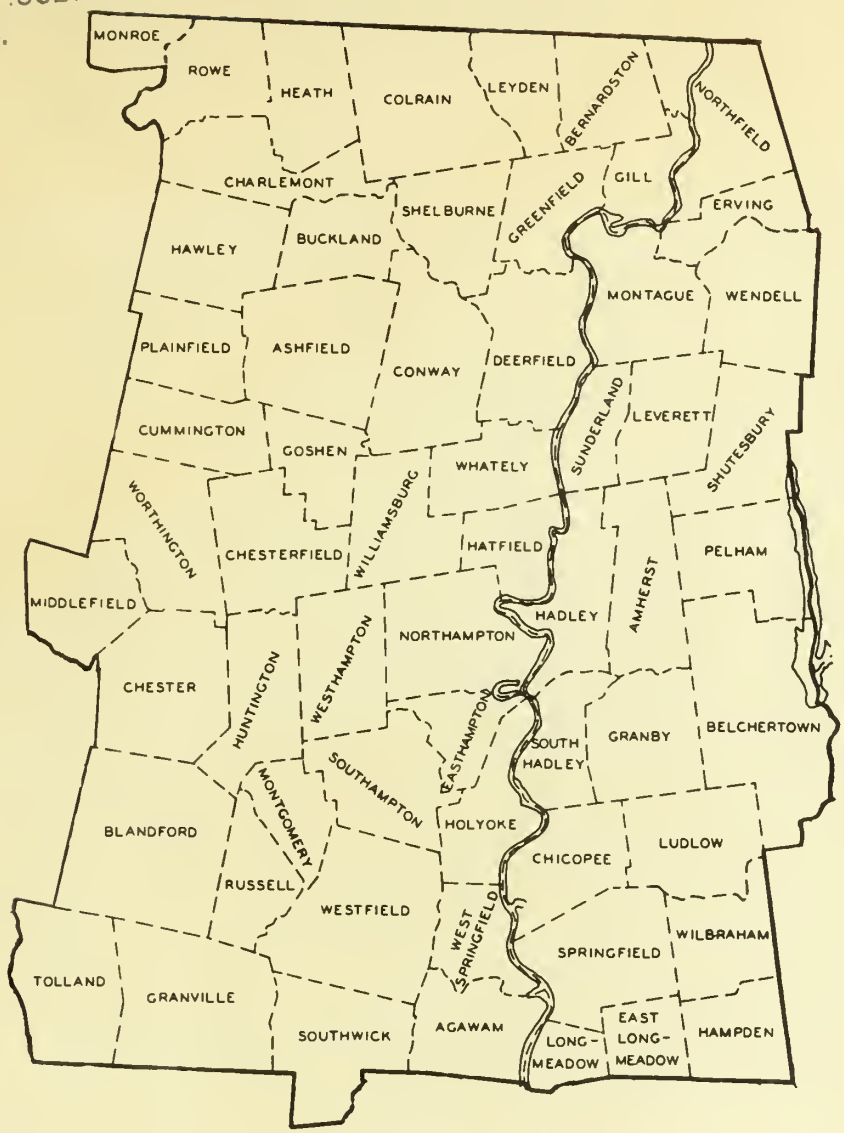

MANUFACTURING COMMUTING SURVEY

[10] PIONEER VALLEY

DIVISION OF PLANNING, MAY, 1963
from a survey taken September, 1960

Massachusetts Department of Commerce
150 CAUSEWAY STREET
BOSTON 14
LA 3-6640

COMMUTING SURVEY OF COVERED MANUFACTURING EMPLOYEES
September, 1960

I. Introduction

An important indicator of the social and economic influence of a community or a region is the relationship between its labor force and the location of their employment. The commuting patterns of an employee reveal in general terms his income, his skills, and his overall orientation to the economy. From this, the task of judging the optimum location of highways, plants, commercial and other facilities dependent upon easy access, markets, and labor force is facilitated.

Thus, when the Division of Planning was preparing its Study of Areas for Regional Planning, published in December, 1960, it became evident that any attempt to determine the regional orientation of our three hundred fifty-one cities and towns could not omit this important factor. However, since detailed information of this type was not available, the Division surveyed over 2,500 manufacturers in September, 1960, to locate the place of residence of their employees. Almost 65% responded. The results were scored and included as one of nine determinants for regional orientation.

This booklet presents the "raw data" assembled in the commuting survey for one of ten areas in the Commonwealth. Several booklets were used, because a single presentation would be unwieldly and, in most instances, unnecessary. Practical considerations, as well as existing and proposed regional organizations and study efforts governed the choice of areas, but the cities and towns included in a particular area do not necessarily form a logical or effective planning region. Booklets are available for the following Areas: Berkshire, Pioneer Valley, Central Massachusetts, Merrimack Valley, Southeastern Massachusetts, the Coastal Plain, and Massachusetts Bay, West, North, South and Central.

II. Method

The survey was taken for maximum inclusion of covered manufacturing employees; i. e., those whose employers report to the Massachusetts Division of Employment Security and which fall into the manufacturing categories of the Standard Industrial Classification. Questionnaires were sent to enough manufacturers in a city or town to locate nearly all reported employees. In most instances, this meant a questionnaire to all employers of over twenty-five workers. None were sent to employers of under twenty-five. In large manufacturing centers, however, fifty was the minimum.

PIONEER VALLEY

Agawam
Amherst
Ashfield
Belchertown
Bernardstown
Blandford
Buckland
Charlemont
Chester
Chesterfield
Chicopee
Colrain
Conway
Cummington
Deerfield
Easthampton
East Longmeadow
Erving
Gill
Goshen
Granby
Granville
Greenfield
Hadley
Hampden
Hatfield
Hawley
Heath
Holyoke
Huntington
Leverett
Leyden
Longmeadow
Ludlow
Middlefield
Monroe
Montague
Montgomery
Northfield
Northampton
Pelham
Plainfield
Rowe
Russell
Shelburne
Shutesbury
South Hadley
Southampton
Southwick
Springfield
Sunderland
Tolland
Wendell
Westfield
Westhampton
West Springfield
Whately
Wilbraham
Williamsburg
Worthington

(60)

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Agawam

(a) Local Employees' Place of Residence:

Agawam	155	South Hadley	3	Total Mass.	933
Springfield	525	Montague	2	Enfield-Thom.	41
W. Springfield	73	Hampden	2	Suffield	11
Chicopee	50	Huntington	2	Somers	2
Ludlow	35	Granby	2	Misc. Conn.	5
E. Longmeadow	21	Northampton	2	Total Conn.	59
Westfield	23	Holyoke	1	Total Out State	59
Southwick	16	Belchertown	1	Grand Total	992
Longmeadow	12	Easthampton	1		
Wilbraham	6	Granby	1		

(b) Local Residents' Place of Employment:

W. Springfield	417	Chicopee	35	E. Longmeadow	46
Springfield	374	Holyoke	25	Total	1066
Agawam	155	Westfield	14		

(c) Totals:

1. Employees included in survey returns:	992
2. Covered employment in all classifications:	2891
3. Covered manufacturing employment:	1254
4. % Survey returns to covered manufacturing employment:	79

Town of Amherst

(a) Local Employees' Place of Residence:

Amherst	29	Pelham	3	Northampton	1
Leverett	5	Montague	2	Chesterfield	1
Easthampton	4	Hatfield	1	Total	46

(b) Local Residents' Place of Employment:

Easthampton	33	Holyoke	13	Chicopee	1
Amherst	29	Hatfield	6	Total	132
Springfield	28	Greenfield	4		
Northampton	15	Hadley	3		

(c) Totals:

1. Employees included in survey returns:	46
2. Covered employment in all classifications:	959

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Amherst (Continued)

3. Covered manufacturing employment: 77

4. % Survey returns to covered manufacturing employment: 60

Town of Ashfield

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Colrain	4	Greenfield	3	Total	13
Shelburne	4	Easthampton	2		

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 88

3. Covered manufacturing employment: 28

4. % Survey returns to covered manufacturing employment: 0

Town of Belchertown

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Springfield	81	Chicopee	14	Total	136
Palmer	21	South Hadley	2		
Holyoke	18				

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 139

3. Covered manufacturing employment: 33

4. % Survey returns to covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Bernardson

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Greenfield	44	Erving	1	Total	50
Montague	5				

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 86
3. Covered manufacturing employment: 6
4. % Survey returns to covered manufacturing employment: 0

Town of Blanford

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Westfield	10	W. Springfield	3	Total	17
Springfield	4				

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 31
3. Covered manufacturing employment: 12
4. % Survey returns to covered manufacturing employment: 0

Town of Buckland

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Shelburne	41	Total	41

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Buckland (Continued)

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 18
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Charlemont

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Colrain	17	Greenfield	6	Total	23

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 64
3. Covered manufacturing employment: 17
4. % Survey returns to covered manufacturing employment: 0

Town of Chester:

(a) Local Employees' Place of Residence:

Chester	82	Middlefield	4	Southwick	1
Huntington	28	Pittsfield	2	W. Springfield	1
Becket	13	Russell	1	Total	147
Westfield	14	Lee	1		

(b) Local Residents' Place of Employment:

Chester	82	Westfield	16	Lee	1
Springfield	62	Russell	4	Total	165

(c) Totals:

1. Employees included in survey returns: 147
2. Covered employment in all classifications: 220
3. Covered manufacturing employment: 195
4. % Survey returns to covered manufacturing employment: [illegible]

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Chesterfield

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Northampton	48	Holyoke	2	Total	54
Easthampton	4				

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	38
3. Covered manufacturing employment:	34
4. % Survey returns to covered manufacturing employment:	0

City of Chicopee

(a) Local Employees' Place of Residence:

Chicopee	4039	Wilbraham	22	Amherst	1
Springfield	1662	Longmeadow	21	Hatfield	1
Holyoke	992	Belchertown	14	Huntington	1
Ludlow	149	Palmer	9	Misc. Mass.	303
South Hadley	145	Ware	4	Total Mass.	7793
W.Springfield	122	Southampton	3	Enfield-Thom.	6
Northampton	68	Warren	2	Misc. Conn.	26
Easthampton	64	Southwick	2	Total Conn.	32
Granby	55	Hampden	2	Total Out State	32
Westfield	47	Monson	1	Grand Total	7825
Agawam	35	Tolland	1		
E.Longmeadow	27	Wales	1		

(b) Local Residents' Place of Employment:

Chicopee	4039	E. Longmeadow	62	Westfield	11
Springfield	1578	Agawam	50	Ludlow	4
Holyoke	920	South Hadley	26	Easthampton	2
W. Springfield	144	Northampton	12	Total	6848

(c) Totals:

1. Employees included in survey returns:	7825
2. Covered employment in all classifications:	16783
3. Covered manufacturing employment:	13535
4. % Survey returns to covered manufacturing employment:	58

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Colrain

(a) Local Employees' Place of Residence:

Colrain	226	Ashfield	4	Misc. Vt.	18
Shelburne	100	Greenfield	19	Total Vt.	18
Charlemont	17	Montague	5	Total Out State	18
Heath	6	Leyden	6	Grand Total	409
Conway	8	Total Mass.	391		

(b) Local Residents' Place of Employment:

Colrain	226	Shelburne	8	Total	249
Greenfield	15				

(c) Totals:

1. Employees included in survey returns: 409
2. Covered employment in all classifications: 443
3. Covered manufacturing employment: 432
4. % Survey returns to covered manufacturing employment: 95

Town of Conway

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Colrain	8	Greenfield	3	Total	14
Shelburne	3				

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 42
3. Covered manufacturing employment: 17
4. % Survey returns to covered manufacturing employment: 0

Town of Cummington

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Dalton	2	Total	2

Cummington (Continued)

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 49
3. Covered manufacturing employment: 8
4. % Survey returns to covered manufacturing employment: 0

Town of Deerfield

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment:

Greenfield	68	Easthampton	11	Hadley	1
Hatfield	16	Erving	8	Total	122
Northampton	11	Montague	7		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 500
3. Covered manufacturing employment: 155
4. % Survey returns to covered manufacturing employment: 0

Town of Easthampton

(a) Local Employees' Place of Residence:

Easthampton	1585	Whately	8	Agawam	1
Northampton	233	Westfield	326	Wilbraham	1
Holyoke	64	Greenfield	5	Ludlow	1
Southampton	32	Westhampton	4	Longmeadow	1
Amherst	33	Springfield	31	E. Longmeadow	1
Montague	19	Chesterfield	4	Worthington	7
Hadley	12	Ashfield	2	Total Mass.	1763
Deerfield	11	South Hadley	2	Misc. Conn.	12
Hatfield	12	Chicopee	2	Total Conn.	12
Williamsburg	9	Goshen	2	Total Out State	12
Sunderland	8	W. Springfield	1	Grand Total	2429

Easthampton (Continued)

(b) Local Residents' Place of Residence:

Easthampton	1585	Chicopee	64	E. Longmeadow	2
Westfield	266	Springfield	47	Hatfield	2
Holyoke	218	W. Springfield	5	Greenfield	1
Northampton	154	Amherst	4	Total	2348

(c) Totals:

1. Employees included in survey returns:	2429
2. Covered employment in all classifications:	3553
3. Covered manufacturing employment:	2819
4. % Survey returns to covered manufacturing employment:	86

Town of East Longmeadow

(a) Local Employees' Place of Residence:

Springfield	305	Holyoke	11	Misc. Mass.	19
E. Longmeadow	79	Worcester	9	Total Mass.	710
Chicopee	62	South Hadley	8	Enfield-Thom.	34
Agawam	46	Palmer	6	Somers	16
Ludlow	38	Granby	4	Misc. Conn.	14
W. Springfield	28	Southwick	4	Total Conn.	64
Westfield	27	Monson	2	Misc. Out State	44
Longmeadow	26	Easthampton	2	Total Out State	108
Wilbraham	20	Chester	1	Grand Total	818
Hampden	12	Brimfield	1		

(b) Local Residents' Place of Employment:

Springfield	315	Chicopee	27	Westfield	3
E. Longmeadow	79	Holyoke	21	Ludlow	2
W. Springfield	57	Agawam	21	Total	525

(c) Totals:

1. Employees included in survey returns:	818
2. Covered employment in all classifications:	1846
3. Covered manufacturing employment:	1108
4. % Survey returns to covered manufacturing employment:	74

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Erving

(a) Local Employees' Place of Residence:

Erving	75	Athol	37	Wendell	1
Montague	527	Gill	28	Total	1008
Orange	147	Deerfield	8		
Northfield	71	Bernardston	1		

(b) Local Residents' Place of Employment:

Erving	75	Greenfield	2	Total	109
Athol	21	Orange	11		

(c) Totals:

1. Employees included in survey returns: 1008
2. Covered employment in all classifications: 1215
3. Covered manufacturing employment: 1125
4. % Survey returns to covered manufacturing employment: 90

Town of Gill

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Gill	0	Erving	28	Total	78
Montague	36	Greenfield	14		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 51
3. Covered manufacturing employment: 23
4. % Survey returns to covered manufacturing employment: 0

Town of Goshen

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Northampton	8	Easthampton	2	Total	10

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Goshen (continued)

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 25
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Granby

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Granby	0	South Hadley	7	Agawam	2
Holyoke	25	W. Springfield	6	Westfield	14
Chicopee	55	E. Longmeadow	4	Total	219
Springfield	33	Northampton	3		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 124
3. Covered manufacturing employment: 2
4. % Survey returns to covered manufacturing employment: 0

Town of Granville

(a) Local Employees Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Westfield	17	Total	17

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 85
3. Covered manufacturing employment: 78
4. % Survey returns to covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Greenfield

(a) Local Employees Place of Residence:

Greenfield	837	Gill	14	Athol	2
Montague	255	Amherst	4	Total Mass.	1348
Deerfield	68	Ashfield	3	Misc. R. I.	1
Shelburne	50	Conway	3	Total R. I.	1
Bernardston	44	Erving	2	Misc. N. H.	3
Colrain	15	New Salem	2	Total N. H.	3
Northfield	15	Easthampton	1	Misc. Vt.	4
Sunderland	11	Rowe	1	Total Vt.	4
Orange	6	Leverett	1	Misc. Out St.	4
Leyden	6	Whately	1	Total Out St.	13
Charlemont	6	Wendell	1	Grand Total	1361

(b) Local Residents' Place of Employment:

Greenfield	837	Colrain	19	Shelburne	2
Erving	113	Northampton	13	Orange	4
Montague	100	Easthampton	5	Total	1093

(c) Totals:

1. Employees included in survey returns: 1361

2. Covered employment in all classifications: 5529

3. Covered manufacturing employment: 2616

4. % Survey returns to covered manufacturing employment: 52

Town of Hadley

(a) Local Employees' Place of Residence:

Hadley	14	Whately	2	Williamsburg	1
Northampton	3	Hatfield	2	Total	29
Amherst	3	Montague	1		
Sunderland	2	Deerfield	1		

(b) Local Residents' Place of Employment:

Springfield	40	Easthampton	12	Holyoke	2
Northampton	65	Hatfield	8	Total	141
Hadley	14				

Hadley (Continued)

(c) Totals:

1. Employees included in survey returns:	29
2. Covered employment in all classifications:	257
3. Covered manufacturing employment:	31
4. %Survey returns to covered manufacturing employment	94

Town of Hampden

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Springfield	90	Agawam	2	Total	106
E. Longmeadow	12	Chicopee	2		

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	86
3. Covered manufacturing employment:	0
4. %Survey returns to covered manufacturing employment	0

Town of Hatfield

(a) Local Employees' Place of Residence:

Hatfield	54	Amherst	6	Greenfield	1
Northampton	27	Leverett	4	Conway	1
Deerfield	16	Easthampton	2	Northfield	1
Hadley	8	Holyoke	1	Shelburne	1
				Total	122

(b) Local Residents' Place of Employment:

Northampton	62	Holyoke	4	Total	135
Hatfield	54	Hadley	2		
Easthampton	12	Amherst	1		

(c) Totals:

1. Employees included in survey returns:	122
2. Covered employment in all classifications:	370

Hatfield (Continued)

3. Covered manufacturing employment: 141

4. % Survey returns to covered manufacturing employment 87

Town of Hawley

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Shelburne	2	Total	2

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 0

3. Covered manufacturing employment: 0

4. % Survey returns to covered manufacturing employment 0

Town of Heath

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Colrain	6	Total	6

(c) Totals:

1. Employees included in survey returns: 0

2. Covered employment in all classifications: 1

3. Covered manufacturing employment: 0

4. % Survey returns to covered manufacturing employment: 0

City of Holyoke

(a) Local Employees' Place of Residence:

Holyoke	3548	W. Springfield	58	Huntington	17
Chicopee	920	Ludlow	39	Southampton	14
South Hadley	630	Westfield	35	Amherst	13
Springfield	271	Agawam	25	Palmer	6
Easthampton	218	E. Longmeadow	21	Wilbraham	5
Granby	95	Longmeadow	19	Hatfield	4
Northampton	88	Belchertown	18	Ware	2

Holyoke (Continued)

Hadley	2	Westhampton	1	Suffield	1
Chesterfield	2	Williamsburg	1	Somers	3
Southwick	1	Misc. Mass.	104	Misc. Conn.	1
Goshen	1	Total Mass.	6154	Total Conn.	8
Pelham	1	Enfield-Thom.	3	Total Out State	8
				Grand Total	6162

(b) Local Residents' Place of Employment:

Holyoke	3548	Easthampton	64	E. Longmeadow	11
Chicopee	992	Westfield	41	Russell	4
Springfield	417	Northampton	36	Wilbraham	2
W. Springfield	84	South Hadley	35	Total	5234

(c) Totals:

1. Employees included in survey returns:	6162
2. Covered employment in all classifications:	20318
3. Covered manufacturing employment:	12321
4. % Survey returns to covered manufacturing employment:	50

Town of Huntington

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Westfield	37	Holyoke	17	Agawam	2
Russell	60	Springfield	10	Lee	1
Chester	28	W. Springfield	2	Total	157

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	77
3. Covered manufacturing employment:	9
4. % Survey returns to covered manufacturing employment	0

Town of Leverett

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Amherst	5	Greenfield	1
Hatfield	4	Total	10

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Leverett (Continued)

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	24
3. Covered manufacturing employment:	1
4. % Survey returns to covered manufacturing employment:	0

Town of Leyden

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Greenfield	6	Colrain	6	Total	12

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	1
3. Covered manufacturing employment:	0
4. % Survey returns to covered manufacturing employment	0

Town of Longmeadow

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Springfield	253	Chicopee	21	Northampton	3
E. Longmeadow	26	Holyoke	19	Westfield	2
W. Springfield	42	Agawam	12	Total	378

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	336
3. Covered manufacturing employment:	14
4. % Survey returns to covered manufacturing employment:	0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Town of Ludlow

(a) Local Employees' Place of Residence:

Ludlow	76	E. Longmeadow	2	Belchertown	1
Springfield	51	Palmer	1	W. Springfield	1
Wilbraham	9	Agawam	1	Total Mass.	152
Monson	4	Holyoke	1	Enfield-Thom.	2
Chicopee	4	Pelham	1	Total Conn.	2
				Total Out State	2
				Grand Total	154

(b) Local Residents' Place of Employment:

Springfield	1746	Palmer	35
Chicopee	149	Agawam	35
Ludlow	76	W. Springfield	24
Holyoke	39	Wilbraham	13
E. Longmeadow	38	Total	2155

(c) Totals:

1. Employees included in survey returns:	154
2. Covered employment in all classifications:	868
3. Covered manufacturing employment:	404
4. % Survey returns to covered manufacturing employment:	38

Town of Middlefield

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Chester	4	Total	4

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	5
3. Covered manufacturing employment:	0
4. % Survey returns to covered manufacturing employment:	0

Town of Monroe

(a) Local Employees' Place of Residence: Too few for survey

Monroe	38	Misc. Mass.	22	Jacksonville	9
Rowe	15	Total Mass.	89	Wilmington	9
North Adams	14	Readsboro, Vt.	102	Total Vt.	120
				Total Out State	120
				Grand Total	209

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Monroe (Continued)

(b) Local Residents' Place of Employment:

Monroe	38	Total	38

(c) Totals:

1. Employees included in survey returns:	209
2. Covered employment in all classifications:	212
3. Covered manufacturing employment:	203
4. % Survey returns to covered manufacturing employment:	103

Town of Montague

(a) Local Employees' Place of Residence:

Montague	300	Northfield	5	Rowe	1
Greenfield	100	Orange	4	Holyoke	1
Gill	36	Shelburne	3	Total Mass.	464
Deerfield	7	Leverett	1	Winchester	3
Bernardston	5	Colrain	1	Total N. H.	3
				Total Out State	3
				Grand Total	467

(b) Local Residents' Place of Employment:

Erving	527	Northampton	7	South Hadley	2
Montague	300	Athol	6	Hadley	1
Greenfield	255	Colrain	5	Shelburne	1
Easthampton	19	Amherst	2	Total	1125

(c) Totals:

1. Employees included in survey returns:	467
2. Covered employment in all classifications:	987
3. Covered manufacturing employment:	487
4. % Survey returns to covered manufacturing employment:	96

Town of Montgomery

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Westfield	5	Total	5

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Montgomery (Continued)

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 9
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Northfield

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Erving	71	Montague	5	Total	93
Greenfield	15	Athol	2		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 127
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Northampton

(a) Local Employees' Place of Residence:

Northampton	1402	Montague	7	Athol	1
Easthampton	154	Whately	4	Misc. Mass.	56
Hadley	65	Granby	3	Total Mass.	2037
Hatfield	62	Longmeadow	3	Misc. Conn.	1
Chesterfield	48	W. Springfield	2	Total Conn.	1
Holyoke	36	Ashfield	2	Grand Total	2038
Williamsburg	25	Cummington	2		
Springfield	23	Belchertown	2		
South Hadley	16	Agawam	2		
Southampton	15	Southwick	1		
Amherst	15	Erving	1		
Greenfield	13	Pelham	1		
Chicopee	12	Worthington	1		
Deerfield	11	Westhampton	1		
Worcester	10	Conway	1		
Pittsfield	10	Colrain	1		
Sunderland	10	Ludlow	1		
Goshen	8	Shelburne	1		
Westfield	8	N. Brookfield	1		

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Northampton (Continued)

(b) Local Residents' Place of Employment:

Northampton	1402	Chicopee	68	W. Springfield	5
Easthamoton	233	Springfield	55	Hadley	3
Holyoke	88	Hatfield	27	Agawam	2
		Westfield	22	Total	1905

(c) Totals:

1. Employees included in survey returns:	2038
2. Covered employment in all classifications:	6499
3. Covered manufacturing employment:	3006
4. % Survey returns to covered manufacturing employment:	68

Town of Pelham

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Amherst	3	Total	3

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	3
3. Covered manufacturing employment:	0
4. % Survey returns to covered manufacturing employment:	0

Town of Plainfield

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Adams	1	Total	1

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	16
3. Covered manufacturing employment:	0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Plainfield (Continued)

4. % Survey returns to covered manufacturing employment: 0

Town of Rowe

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Monroe	15	Shelburne	1
Greenfield	1	Total	17

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 84
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Russell

(a) Local Employees' Place of Residence:

Russell	240	Worthington	2	Hinsdale	1
Westfield	99	Ludlow	1	Wilbraham	1
Huntington	60	Williamsburg	1	Springfield	3
Southwick	13	W. Springfield	1	Misc. Mass.	32
Holyoke	4	Longmeadow	1	Total	464
Chester	4	Blandford	1		

(b) Local Residents' Place of Employment:

Russell	240	W. Springfield	5	Chester	1
Westfield	28	Springfield	3	Total	277

(c) Totals:

1. Employees included in survey returns: 464
2. Covered employment in all classifications: 608
3. Covered manufacturing employment: 585
4. % Survey returns to covered manufacturing employment: 79

Town of Shelburne

(a) Local Employees' Place of Residence:

Buckland	41	Colrain	8	Conway	3
Shelburne	12	Ashfield	4	Hawley	2

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Shelburne (Continued)

Greenfield	2	Montague	1
Rowe	1	Total	74

(b) Local Residents' Place of Employment:

Colrain	100	Shelburne	12	Total	165
Greenfield	50	Montague	3		

(c) Totals:

1. Employees included in survey returns: 74
2. Covered employment in all classifications: 472
3. Covered manufacturing employment: 158
4. % Survey returns to covered manufacturing employment: 47

Town of Shutesbury

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 2
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of South Hadley

(a) Local Employees' Place of Residence:

South Hadley	54	Springfield	6	Northampton	1
Holyoke	35	W. Springfield	4	Southampton	1
Chicopee	26	Belchertown	2	Amherst	1
Westfield	10	Montague	2	Chesterfield	1
Granby	7	Ware	2	Total	152

(b) Local Residents' Place of Employment:

Holyoke	630	South Hadley	54	Westfield	3
Chicopee	145	E. Longmeadow	8	Easthampton	2
Springfield	93	W. Springfield	6	Total	960
Northampton	16	Agawam	3		

South Hadley (Continued)

(c) Totals:

1. Employees included in survey returns:	152
2. Covered employment in all classifications:	760
3. Covered manufacturing employment:	320
4. % Survey returns to covered manufacturing employment:	48

Town of Southampton

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment:

Westfield	15	Holyoke	14
Easthampton	32	W. Springfield	7
Springfield	20	Chicopee	3
Northampton	15	Total	106

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	80
3. Covered manufacturing employment:	34
4. % Survey returns to covered manufacturing employment:	0

Town of Southwick

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment:

Westfield	76	Agawam	16	Chicopee	2
Springfield	38	Russell	13	Chester	1
W. Springfield	35	E. Longmeadow	4	Total	185

(c) Totals:

1. Employees included in survey returns:	0
2. Covered employment in all classifications:	296
3. Covered manufacturing employment:	99
4. % Survey returns to covered manufacturing employment:	0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

City of Springfield

(a) Local Employees' Place of Residence:

Springfield	8371	Ware	77	Blandford	4
Chicopee	1578	Monson	55	Russell	3
Ludlow	1746	Northampton	53	Hatfield	1
W. Springfield	504	Easthampton	47	Williamsburg	1
Holyoke	417	Southwick	38	Worthington	1
Agawam	374	Hadley	40	Holland	2
E. Longmeadow	315	Southampton	20	Misc. Mass.	96
Longmeadow	253	Warren	15	Total Mass.	15,206
Palmer	238	Hardwick	16	Enfield-Thom.	98
Westfield	146	Amherst	28	Suffield	21
Wilbraham	372	Granby	33	Somers	19
South Hadley	93	Huntington	10	Misc. Conn.	44
Hampden	90	Southbridge	9	Total Conn.	182
Belchertown	81	Wales	8	Total Out State	182
Chester	62	Brimfield	7	Grand Total	15,388

(b) Local Residents' Place of Employment:

Springfield	8371	Westfield	145	South Hadley	6
Chicopee	1662	Wilbraham	64	Ware	5
W. Springfield	1060	Ludlow	51	Monson	5
Agawam	525	Palmer	35	Warren	4
E. Longmeadow	305	Easthampton	31	Russell	3
Holyoke	271	Northampton	23	Total	12,566

(c) Totals:

1. Employees included in survey returns: 15,388
2. Covered employment in all classifications: 61,899
3. Covered manufacturing employment: 24,281
4. % Survey returns to covered manufacturing employment: 63

Town of Sunderland

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Greenfield	11	Easthampton	8	Total	31
Northampton	10	Hadley	2		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 174
3. Covered manufacturing employment: 0

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Sunderland (Continued)

4. % Survey returns to covered manufacturing employment: 0

Town of Tolland

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 55
3. Covered manufacturing employment: 0
4. % Survey returns to covered manufacturing employment: 0

Town of Wendell

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Orange	8	Erving	1	Total	13
Athol	3	Greenfield	1		

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 11
3. Covered manufacturing employment: 5
4. % Survey returns to covered manufacturing employment: [illegible]

City of Westfield

(a) Local Employees' Place of Residence:

Westfield	1953	Granville	17	Montgomery	5
Easthampton	266	Chester	16	Otis	5
Springfield	145	Southampton	15	South Hadley	3
Southwick	76	Agawam	14	Worthington	2
Holyoke	41	Granby	14	Longmeadow	2
Huntington	37	Chicopee	11	Brimfield	1
West Springfield	36	Blandford	10	Ludlow	1
Russell	28	East Longmeadow	3	Amherst	1
Northampton	22	Wilbraham	3	Palmer	1

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Westfield (Continued)

(a)

Total Mass.	2728	Granby	1	Total Conn.	20
Simsbury	2	Somers	1	Total Out State	23
Enfield-Thom.	2	Misc. Conn.	14	Grand Total	2751

(b) Local Residents' Place of Employment:

Westfield	1953	Russell	99	Agawam	23
Easthampton	326	Chicopee	47	Chester	14
W. Springfield	225	Holyoke	35	South Hadley	10
Springfield	146	E. Longmeadow	27	Northampton	8
				Total	2913

(c) Totals:

1. Employees included in survey returns: 2751
2. Covered employment in all Classifications: 6221
3. Covered manufacturing employment: 3467
4. % Survey returns to covered manufacturing employment: 79

Town of Westhampton

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Easthampton	4	Total	4

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 35
3. Covered manufacturing employment: 13
4. % Survey returns to covered manufacturing employment: 0

Town of West Springfield

(a) Local Employees' Place of Residence:

Springfield	1060	Wilbraham	12	Ware	2
W. Springfield	696	Southampton	7	Huntington	2
Agawam	417	Granby	6	Belchertown	1
Westfield	225	Palmer	6	Chester	2
Chicopee	144	Russell	5	Otis	1
Holyoke	84	South Hadley	6	Holland	1
E. Longmeadow	57	Easthampton	5	Montgomery	1
Ludlow	24	Northampton	5	Hampden	1
Southwick	35	Blandford	3	Chesterbury	1

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Wilbraham (Continued)

(b) Local Residents' Place of Employment:

Wilbraham	21	Palmer	16	Holyoke	5
Springfield	372	Ludlow	9	Warren	4
Chicopee	22	W. Springfield	12	Westfield	3
E. Longmeadow	20	Agawam	6	Total	490

(c) Totals:

1. Employees included in survey returns: 134
2. Covered employment in all classifications: 1305
3. Covered manufacturing employment: 1049
4. % Survey returns to covered manufacturing employment: 13

Town of Williamsburg

(a) Local Employees' Place of Residence: No response to survey

(b) Local Residents' Place of Employment:

Northampton	25	Hadley	1
Easthampton	9	Total	35

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 282
3. Covered manufacturing employment: 155
4. % Survey returns to covered manufacturing employment: 0

Town of Worthington

(a) Local Employees' Place of Residence: Too few for survey

(b) Local Residents' Place of Employment:

Easthampton	7	Russell	2
Westfield	2	Total	11

(c) Totals:

1. Employees included in survey returns: 0
2. Covered employment in all classifications: 32

COMMUTING PATTERNS OF COVERED MANUFACTURING EMPLOYEES

Worthington (Continued)

3. Covered manufacturing employment: 0

4. % Survey returns to covered manufacturing employment: 0

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